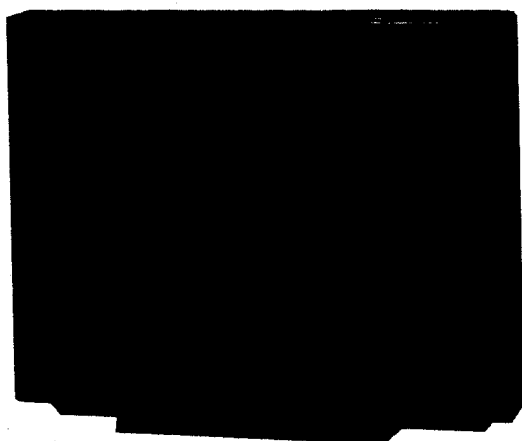


# KV-S29JN1/S29MN1/S29SN1 KV-S34JN1/S34MN1/S34SN1

**RM-821**

## SERVICE MANUAL



### *JE Model*

*KV-S29JN1*

*Chassis No. SCC-F54B-A*

*KV-S34JN1*

*Chassis No. SCC-F54A-A*

### *GE Model*

*KV-S29MN1*

*Chassis No. SCC-F51B-A*

*KV-S34MN1*

*Chassis No. SCC-F51A-A*

### *Australian Model*

*KV-S29SN1*

*Chassis No. SCC-F53B-A*

*KV-S34SN1*

*Chassis No. SCC-F53A-A*

## **G I CHASSIS**

### MODELS OF THE SAME SERIES

KV-S29JN1/S29MN1/S29SN1

KV-S34JN1/S34MN1/S34SN1

TRINITRON® COLOR TV  
**SONY®**



## Specifications

Television standards	B/G, H, I, D/K, M
Color system	PAL, SECAM, NTSC 4.43, NTSC 3.58
NICAM stereo system	B/G -system: KV-S34MN1/S34SN1/S34JN1/ S29MN1/S29SN1/ S29JN1
Antenna	75-ohm external antenna terminal
Speakers	Woofer 12 cm Middle-High 5 cm

### Inputs

Jack	S VIDEO	VIDEO	AUDIO L/R
VIDEO 1	4-pin mini DIN Y: 1 Vp-p, 75 ohms, unbalanced, sync negative C: 0.286 Vp-p, 75 ohms	Phono jack 1 Vp-p, 75 ohms, unbalanced, sync negative	0.5 Vrms (standard level, 47 kilohms)
VIDEO 2			
VIDEO 3			
VIDEO 4	4-pin mini DIN Y: 1 Vp-p, 75 ohms, unbalanced, sync negative C: 0.286 Vp-p, 75 ohms		

### Output

Jack	S VIDEO	VIDEO	AUDIO L/R
VIDEO 1	4-pin mini DIN Y: 1 Vp-p, 75 ohms, unbalanced, sync negative C: 0.286 Vp-p, 75 ohms	1 Vp-p, 75 ohms, unbalanced, sync negative	0.5 Vrms (standard level, 5 kilohms or less)
VIDEO 2			
VIDEO 4			
MONITOR			
AUDIO OUT	—	—	

### Power requirements

KV-S34JN1/S29JN1: 110 – 240 V AC, 50/60 Hz

KV-S34MN1/S34SN1/S29MN1/S29SN1: 220 – 240 V AC, 50/60 Hz

Model	KV-S34MN1/ S34SN1/S34JN1	KV-S29MN1/ S29SN1/S29JN1
Picture tube	34-inch (about 86 cm) Trinitron tube (about 80 cm picture measured diagonally) 110-degree deflection	29-inch (about 72 cm) Trinitron tube (about 68 cm picture measured diagonally) 110-degree deflection
Power consumption	225 W	223 W
Dimensions (w/h/d)	809 x 649 x 574 mm	694 x 558 x 527 mm
Weight	81 kg	56 kg

### Accessories supplied

RM-821 Remote Commander (1)  
R6 batteries (2)  
Power cord plug adaptor (2, only for KV-S34JN1/S29JN1)  
Band (1), Clamp (2), Screw (4)  
RM-829 Remote Commander  
Optional accessory  
SU-S34 A/V rack  
SU-S29 A/V rack

Design and specifications are subject to change without notice.

**Channel Coverage****MIDDLE EAST/ASIA (B/G, H)**

Receiveable Channel	Channel Display
E-2 to E-12	C02 to C12
E-21 to E-69	C21 to C69
<b>Indonesia</b>	
2 to 11	C03 to C12
<b>Morocco</b>	
M-4 to M-7	C70 to C73
M-8 to M-10	C8 to C10
<b>New Zealand</b>	
2	C03
3	C04
4 to 9	C05 to C10

**E.EUROPE/CHINA (D/K)**

Receiveable Channel	Channel Display
<b>East European countries</b>	
R-1 to R-12	C01 to C12
R-21 to R-60	C21 to C60
<b>China</b>	
C-1	C01
C-2	C02
C-3	C13
C-4	C03
C-5	C04
C-6	C14
C-7 to C-12	C06 to C11
C-13 to C-24	C21 to C32
C-25 to C-47	C38 to C60
C-48 to C-57	C61 to C70

**CATV W. EUROPE (B/G, H)**

Receiveable Channel	Channel Display
S-01 to S-03	C42 to C44
S-1 to S-41	C01 to C41

**AMERICA (M)**

Receiveable Channel	Channel Display
2 to 83	C02 to C83

**AUSTRALIA (B/G, H)**

Receiveable Channel	Channel Display
<b>Australia</b>	
AS-0 to AS-11	C00 to C11
AS-5A	C12
AS-28 to AS-69	C28 to C69
<b>New Zealand</b>	
2 to 3	C01 to C02
4 to 7	C06 to C09
8	C13
9	C10

**CATV AMERICA (M)**

Receiveable Channel	Channel Display
2 to 13	C02 to C13
A-1	C99
A-2	C98
A-3	C97
A-4	C96
A-5	C95
A-6	C06
A-7	C05
A-8	C01
A, B, ..., W	C14, C15, ..., C36
AA, ..., CCC	C37, ..., C65

**HK/UK (I)**

Receiveable Channel	Channel Display
<b>Hong Kong, United Kingdom</b>	
B-21 to B-68	C21 to C68
<b>Ireland</b>	
B, C, ..., J	C02, C03, ..., C09
<b>South Africa</b>	
4 to 13	C04 to C13
21 to 68	C21 to C68

**JAPAN**

Receiveable Channel	Channel Display
J-1 to J-62	C01 to C62
C-13 to C-32	C80 to C99


## TABLE OF CONTENTS

<u>Section</u>	<u>Title</u>	<u>Page</u>	<u>Section</u>	<u>Title</u>	<u>Page</u>
<b>1. GENERAL</b>		3	4-8.	B Board Adjustments	34
<b>2. DISASSEMBLY</b>			4-9.	BP Board Adjustments	35
2-1.	Rear Cover Removal	16	4-10.	B1 Board Adjustment	36
2-2.	Switch Block Removal	16	4-11.	V Board Adjustment	36
2-3.	Speaker Removal	16	4-12.	VC Board Adjustment	37
2-4.	Chassis Assembly and H Bracket Removal	17	<b>5. DIAGRAMS</b>		
2-5.	J Bracket Removal	17	5-1.	Block Diagrams	38
2-6.	F Bracket Removal	18	5-2.	Circuit Boards Location	52
2-7.	B and B1 Boards Removal	18	5-3.	Schematic Diagrams and Printed Wiring Boards	
2-8.	F1 Board Removal	19	(1)	Schematic Diagrams of F, F1 and H2 Boards	53
2-9.	A1 Board Removal	19	(2)	Schematic Diagrams of A2, H1 and S Boards	58
2-10.	Extension Cable and Board	19	(3)	Schematic Diagram of A1 Board	63
2-11.	Service Position	20	(4)	Schematic Diagrams of M and J Boards	69
2-12.	Degaussing Coil Removal	20	(5)	Schematic Diagram of A Board	73
2-13.	Picture Tube Removal	21	(6)	Schematic Diagram of B Board	83
<b>3. SET-UP ADJUSTMENTS</b>			(7)	Schematic Diagram of BP Board	88
3-1.	Beam Landing	22	(8)	Schematic Diagrams of B1, VC, VM and D1 Boards	97
3-2.	Convergence	23	(9)	Schematic Diagram of D Board	101
3-3.	Focus	27	(10)	Schematic Diagram of V Board	107
3-4.	White Balance	27	(11)	Schematic Diagram of C Board	110
<b>4. CIRCUIT ADJUSTMENTS</b>			5-4.	Semiconductors	112
4-1.	Adjustments with Commander	28	<b>6. EXPLODED VIEWS</b>		
4-2.	Adjustment Method	29	6-1.	Chassis	114
4-3.	Picture Quality Adjustments	31	6-2.	Picture Tube	115
4-4.	Display Position Adjustment	31	<b>7. ELECTRICAL PARTS LIST</b>		116
4-5.	Picture Distortion Adjustment	31			
4-6.	A Board Adjustments	33			
4-7.	A1 Board Adjustments	33			

## CAUTION

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

## SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK  ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.



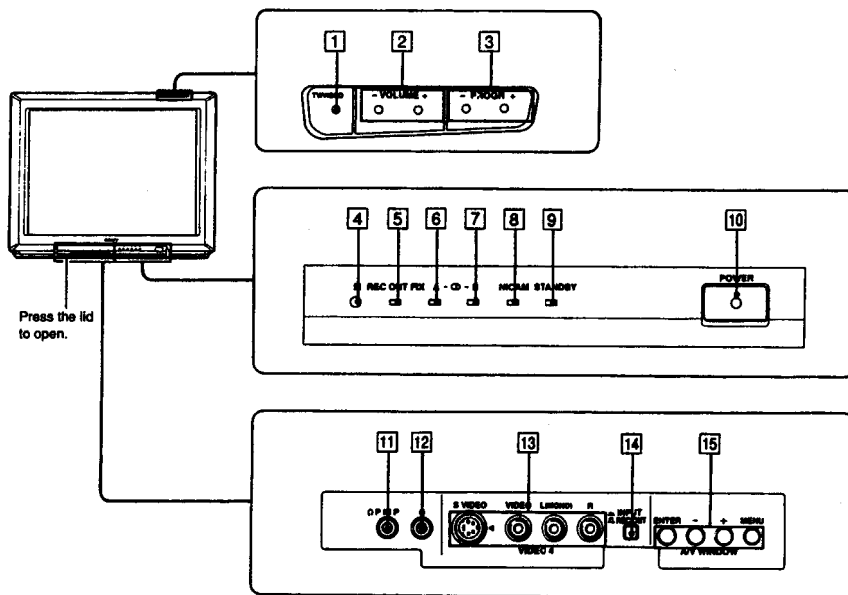
The operating instructions mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remain as in the manual.

## SECTION 1 GENERAL

### 1-1. OVERVIEW

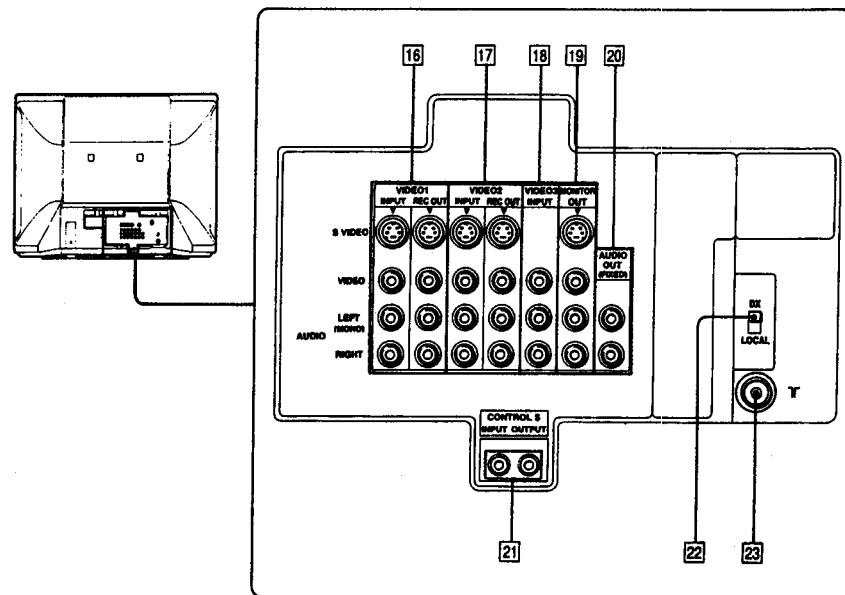
This section briefly describes the buttons and controls on the TV set and on the Remote Commander. For more information, refer to the pages given next to each description.

#### TV set



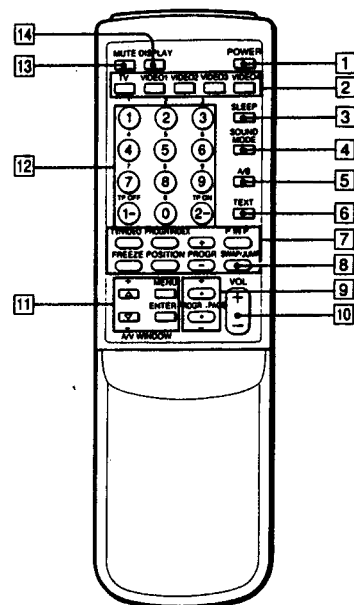
- 1 TV/VIDEO button ●
- 2 VOLUME +/- buttons ●  
Press to adjust the volume.
- 3 PROGR (program) +/- buttons ●  
Press to select a program.
- 4 Remote control detector  
Operate the Remote Commander pointed at here.
- 5 REC OUT(recording output) FIX lamp ●
- 6 A mode lamp ●
- 7 B mode lamp ●
- 8 NICAM lamp ●
- 9 STANDBY lamp
- 10 POWER switch
- 11 P IN P (Picture In Picture) headphones jack  
Connect a headphone to listen to the sound of P IN P picture.
- 12 Headphones jack  
Connect a headphones to listen personally.
- 13 VIDEO 4 connectors ●
- 14 VIDEO 4 INPUT/REC OUT(recording output) button ●  
Press to switch the video 4 connectors to input or output.
- 15 Menu and A/V(audio/video) WINDOW function buttons ●●●●●●●●●●

#### Rear

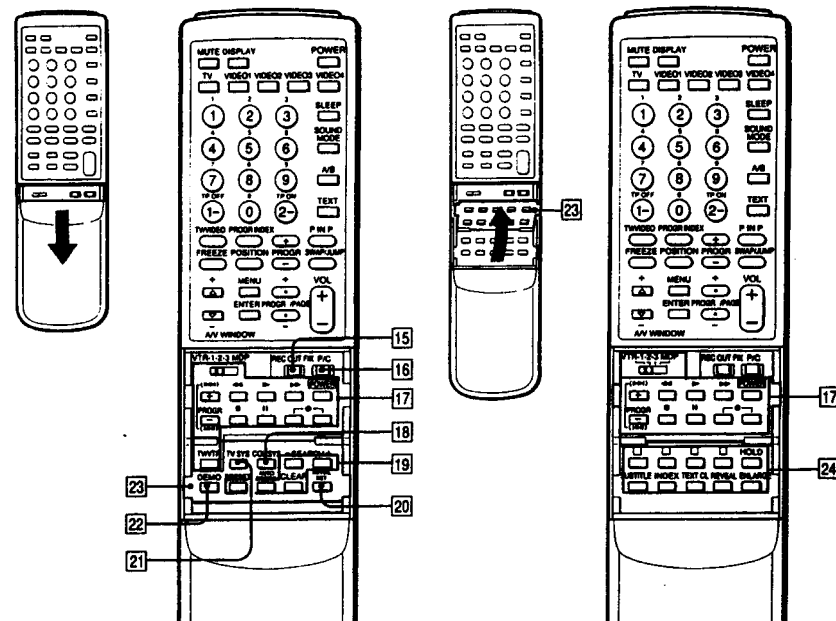


- 16 VIDEO 1 INPUT/REC OUT(recording output) jacks ●
- 17 VIDEO 2 INPUT/REC OUT(recording output) jacks ●
- 18 VIDEO 3 INPUT jacks ●
- 19 MONITOR OUT(output) jacks  
Connect another TV or monitor.
- 20 AUDIO OUT(output) (FIXED) jacks ●
- 21 CONTROL S INPUT/OUTPUT jacks  
To control the TV with the Remote Commander to be pointed at another Sony equipment, connect the Sony equipment to INPUT.  
To control another Sony equipment with the Remote Commander to be pointed at the TV, connect the Sony equipment to OUTPUT.
- 22 DX/LOCAL switch  
Normally set this switch to DX. If the sound is noisy, or lines or stripes appear on the screen because of too strong TV signal, set the switch to LOCAL.
- 23 T (antenna) terminal ●

## Remote Commander



- |   |  |
|---|--|
| 1 POWER button ●  | 7 P IN P (Picture In Picture) screen control buttons ● ●                   |
| 2 TV, VIDEO 1, VIDEO 2, VIDEO 3, VIDEO 4 (FRONT) input select buttons ●                                   | 8 JUMP button ●  |
| 3 SLEEP button ●<br>Press to set the sleep timer so that the TV automatically switches into standby mode. | 9 PROGR(program)/PAGE +/- buttons ● ● ●                                    |
| 4 SOUND MODE button ●<br>Press to select the sound mode according to the program.                         | 10 VOL(volume) +/- buttons ●   |
| 5 A/B button ●<br>Press to select the sound mode of stereo or bilingual program.                          | 11 Menu and A/V(audio/video) window function buttons ● ● ● ● ● ● ● ●       |
| 6 TEXT button ●<br>Press to switch to teletext mode.  | 12 Program number buttons ●  |
|   | 13 MUTE button ●   |
|   | 14 DISPLAY button ●<br>Press to display current mode and program position. |



- |   |  |
|---|--|
| 15 REC OUT(recording output) FIX button ●<br>Press to fix the source to be recorded.    |  |
| 16 P/C (program position/channel) button ●  |  |
| 17 VTR/Multi disc player controls   |  |
| When the panel 23 is in the lower position  |  |
| 18 COL SYS(color system) button ●<br>Press to select a color system.                    |  |
| 19 Channel presetting buttons ● ●   |  |
| 20 INITIAL SET button<br>Press to reset the adjustment and setting to factory-set mode. |  |
| 21 TV SYS(system) button ● ●<br>Press to select a TV system.                            |  |
| 22 DEMO(demonstration) button ●<br>Press to see all the menu pages in sequence.         |  |

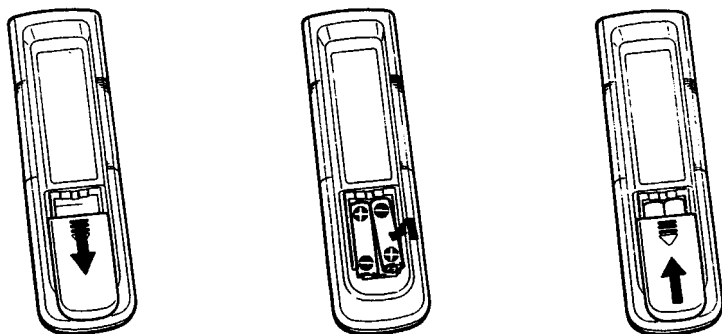
- |   |
|---|
| 23 Panel<br>Make sure that the panel is fixed in the upper or lower position. |
|---|

When the panel is in the upper position

- |                                   |
|-----------------------------------|
| 24 Teletext operation buttons ● ● |
|-----------------------------------|

## 1-2. INSERTING THE BATTERIES INTO THE SUPPLIED REMOTE COMMANDER

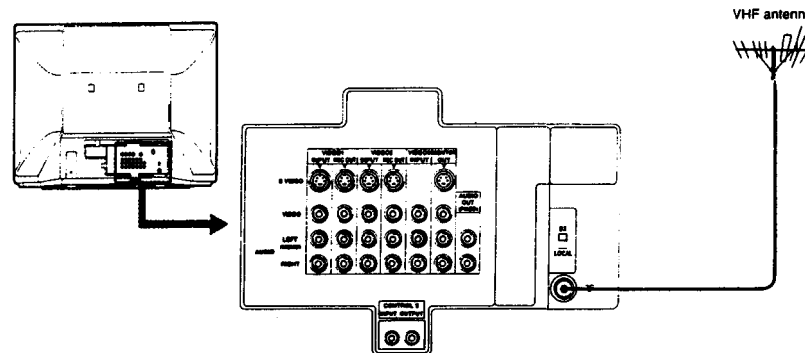
- 1 Detach the cover.
- 2 Check the correct polarities.
- 3 Replace the cover.



## 1-3. CONNECTING THE ANTENNA

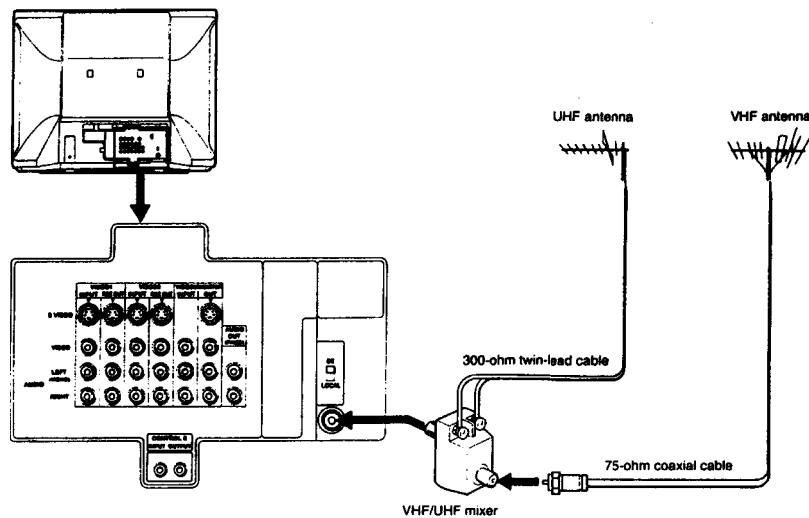
### Connecting a VHF Antenna or a Combination VHF/UHF Antenna—Round 75-ohm Coaxial Cable

Attach an IEC antenna connector to 75-ohm coaxial cable.  
Plug the connector into the "I" (antenna) socket at the rear of the TV.



### Connecting Both VHF and UHF Antennas

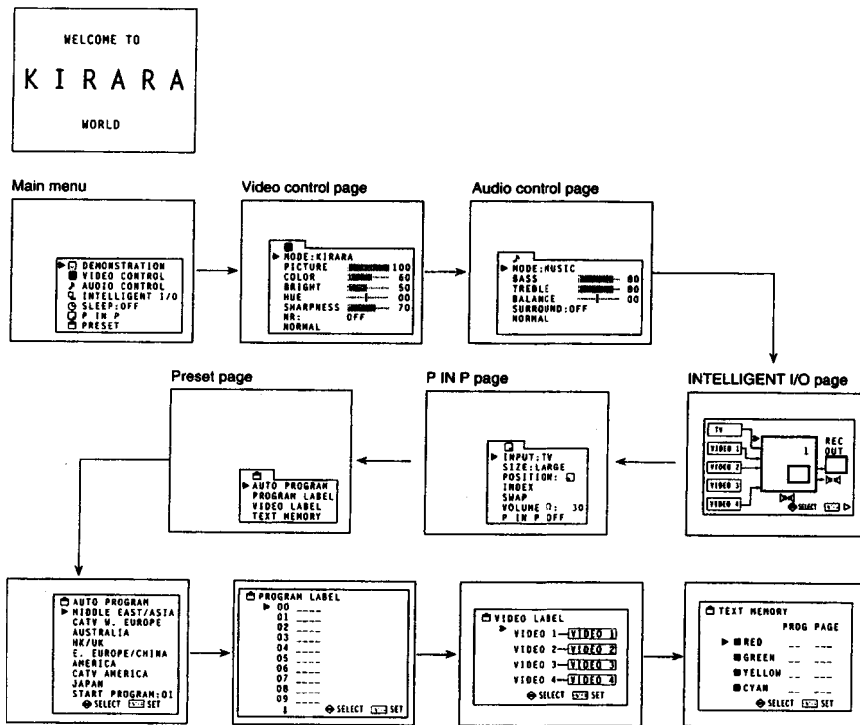
Attach the antenna ends to the VHF/UHF mixer (not supplied).  
Plug the mixer into the "I" (antenna) socket at the rear of the TV.



## 1-4. INTRODUCTION OF MENU

You will perform presetting, adjustment and other setting on the menu. Before beginning the presetting and operation, we suggest to have a look at the pages in the menu.

Press the DEMO button on the Remote Commander.  
All the menu pages appear in sequence, and repeatedly.  
To stop demonstration, press any button.



## 1-5. PRESETTING THE CHANNELS

### Channel Allocation

#### Areas allocated in "MIDDLE EAST/ASIA" channel system

Afghanistan, Albania, Algeria, Austria, Bahrain, Bangladesh, Belgium, Brunei, Canary Islands, Cyprus, Denmark, Egypt, Finland, Germany, Ghana, Gibraltar, Greece, Iceland, India, Indonesia, Iran, Iraq, Italy, Jordan, Kenya, Republic of Korea, Kuwait, Lebanon, Liberia, Libya, Luxemburg, Malaysia, Malta, Mauritania, Mauritius, Maldives Rep., Morocco, Mozambique, Nepal, Netherlands, New Zealand, Nicaragua, Nigeria, Norway, Oman, Pakistan, Portugal, Qatar, Sarawak, Saudi Arabia, Seychelles, Sierra Leone, Singapore, Spain, Sri Lanka, Sudan, Swaziland, Sweden, Switzerland, Syrian Arab Rep., Tanzania, Thailand, Tunisia, Turkey, Uganda

#### Areas allocated in "CATV W. EUROPE" channel system

United Arab Emirates, Western Sahara, Yemen Arab Republic, People's Dem. Rep. of Yemen, Yugoslavia, Zambia, Zimbabwe

#### Areas allocated in "AUSTRALIA" channel system

Australia, New Zealand

#### Areas allocated in "HK/UK" channel system

Hong Kong, Ireland, Lesotho, South Africa, United Kingdom

#### Areas allocated in "E. EUROPE/CHINA" channel system

Benin, Bulgaria, China, Congo, Czechoslovakia, Djibouti Republic, Gabon, Guadeloupe, Guiana, Guinea (P.P.R.), Hungary, Ivory Coast, Dem. People's Rep. of Korea, Madagascar, Mongolia, New Caledonia, Niger, Poland, Reunion, Rumania, Senegal, Tahiti, Togo, Former U.S.S.R., Vietnam, Zaire

#### Areas allocated in "AMERICA" channel system

Bahama Islands, Barbados, Belize, Bermuda, Bolivia, Burma(UHF), Canada, Chile, Colombia, Costa Rica, Cuba, Dominica Republic, Ecuador, El Salvador, Guam, Guatemala, Haiti, Hawaii, Honduras, Jamaica, Laos, Mexico, Panama, Peru, Philippines, Puerto Rico, Surinam, Taiwan, Trinidad & Tobago, U.S.A., Venezuela

#### Areas allocated in "CATV AMERICA" channel system

U.S.A.(CATV)

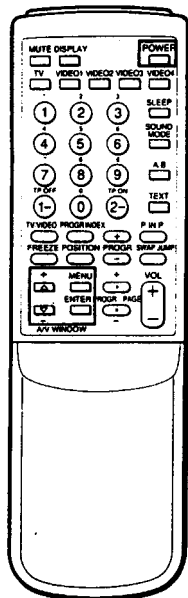
#### Areas allocated in "JAPAN" channel system

Japan (UHF, VHF), Burma (Myanmar) (VHF)

### TV and Color System of the Channel System

The TV system and color system are automatically set according to the channel system.

Channel system	TV system	Color system
MIDDLE EAST/ASIA	B/G, H; West European TV standard	AUTO
CATV W.EUROPE	B/G, H; West European TV standard	AUTO
AUSTRALIA	B/G, H; Australian TV standard	AUTO
HK/UK	I; British TV standard	AUTO
E.EUROPE/CHINA	D/K; East European TV standard	AUTO
AMERICA	M; American TV standard	AUTO
CATV AMERICA	M; American TV standard	AUTO
JAPAN	M; Japan TV standard	AUTO



### Preset Channels Automatically

Up to 30 receivable channels from the lowest channel are automatically preset in the consecutive program positions (1 to 29, 0).  
With this method, you can preset all receivable channels at once.

- 1 Press the POWER switch on the TV to turn on the TV.
- 2 Press MENU on the Remote Commander.
- 3 Move the red cursor to "PRESET" using Δ or ∇, then press ENTER.

DEMONSTRATION  
VIDEO CONTROL  
AUDIO CONTROL  
INTELLIGENT I/O  
SLEEP OFF  
P IN P  
PRESET

- 4 Move the red cursor to "AUTO PROGRAM" using Δ or ∇, then press ENTER.

AUTO PROGRAM  
PROGRAM LABEL  
VIDEO LABEL  
TEXT MEMORY

- 5 Move the red cursor to your channel system using Δ or ∇, according to the list on page 11, then press ENTER.  
Presetting starts from program position 1. When presetting is finished, 1 (program number) appears.

Program and channel numbers

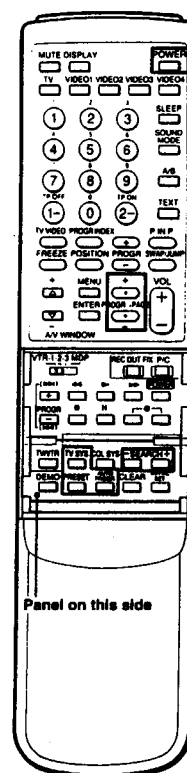
P01 C01 → P01 C02 → P02 C03 → 1

#### If you want to start a program number other than 1

Before pressing ENTER in step 5, press PROGR +/- or the number button until the number you want appears at "START PROGRAM : \_".

#### If you cannot use the Remote Commander

Use the MENU, ENTER, + and - buttons on the TV, and perform as above.



### To preset the channels automatically without using the menu

- 1 Press the POWER switch of the TV to turn on the TV.
- 2 Press PRESET on the Remote Commander. P01 C01
- 3 Select your channel system by pressing TV SYS, referring to "Channel Allocation" on page 11.  
MIDDLE EAST/ASIA → CATV W. EUROPE → AUSTRALIA → HK/UK  
↑  
JAPAN → CATV AMERICA → AMERICA → E. EUROPE/CHINA
- 4 Press AUTO PROGR.  
P01 C01 → P01 C02 → P02 C03 → 1

### Preset Channels Manually

Use this method if there are only a few channels in your area to preset or if you want to preset channels one by one.

- 1 Press the POWER switch of the TV to turn on the TV.
- 2 Press PRESET on the Remote Commander. P01 C01
- 3 Using the PROGR/PAGE + and - buttons, select the program position to which you want to preset a channel. P03 C01
- 4 Select your channel system by pressing TV SYS.  
MIDDLE EAST/ASIA → CATV W. EUROPE → AUSTRALIA → HK/UK  
↑  
JAPAN → CATV AMERICA → AMERICA → E. EUROPE/CHINA
- 5 Tune in the channel, using the SEARCH +/- buttons. The channel number starts counting up or downwards. When a channel is found, it stops. P03 C01
- 6 Repeat steps 3 to 5 to preset other channels.
- 7 Press PRESET. 3

## 1-6. ADDITIONAL PRESETTING FUNCTIONS

### Skipping Program Positions

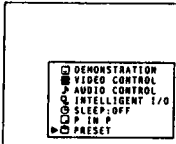
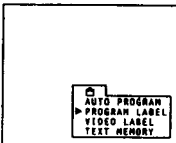
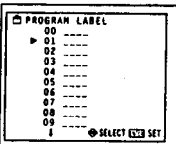
You can skip unused program positions when selecting programs with the PROG/PAGE + and - buttons. However, the skipped programs may still be called up when you use the number buttons.

- 1 Press PRESET. P01 C01
- 2 Select the program position using PROG/PAGE + and - buttons. P03 C01
- 3 Press CLEAR. P03 C--
- 4 Press PRESET. 1

Repeat steps 1 to 4 to skip other program positions.

### Captioning a Station Name

You can "name" a channel using up to four characters so that the name is displayed under the program number. Using this function, you can easily identify which channel you are watching.

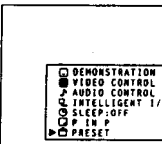
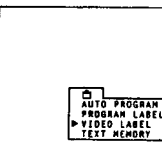
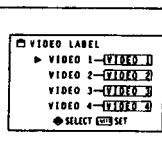
- 1 Press MENU.
- 2 Move the red cursor to "PRESET" using Δ or ∇, then press ENTER.
 
- 3 Move the red cursor to "PROGRAM LABEL" using Δ or ∇, then press ENTER.
 
- 4 Move the red cursor to the program number you want using Δ or ∇, then press ENTER. The first underline of the selected program number turns red.
 
- 5 Select a character using Δ or ∇, then press ENTER. The next underline turns red. Write character for each underline in the same way. If you do not want to write a character, press ENTER.
 

01 C -- → 01 CB -- → 01 CBS

Usable characters: A to Z, 0 to 9, -, ., /, . (period), + and space
- 6 Repeat steps 4 and 5 to caption other program numbers.
- 7 When you finished, press MENU.

### Captioning a Video Input

Using this function, you can identify the source (VHS, Beta, 8mm, Multi disc player, Tuner) of the video inputs, as the source is displayed under the video input.

- 1 Press MENU.
- 2 Move the red cursor to "PRESET" using Δ or ∇, then press ENTER.
 
- 3 Move the red cursor to "VIDEO LABEL" using Δ or ∇, then press ENTER.
 
- 4 Move the red cursor to the video input (1, 2, 3, 4) you want using Δ or ∇.
 
- 5 Press ENTER until the source name appears.
 

VIDEO 1 → [VHS] → [BETA] → [8mm] → [LD] → [TUNER]
- 6 Repeat steps 4 and 5 for other video input.
- 7 When you finished, press MENU.

## 1-7. WATCHING THE TV

This section explains the basic functions you use while watching the TV.

### Switching the TV on and off

#### Switching on

Press the POWER switch on the TV.

#### Switching off temporarily

Press POWER on the Remote Commander.

The TV enters standby mode and the standby indicator on the front of the TV lights up.

#### Switching on again

Press POWER, TV, PROGR/PAGE +/-, or one of the number buttons on the Remote Commander.

If you cannot use the Remote Commander, press PROGR +/- on the TV.

#### Switching off completely

Press the POWER switch on the TV.

### Selecting TV Programs

Press PROGR/PAGE +/- or press number buttons.

To select program 5, press "5".

To select program 10, press "1-" "0".

To select program 25, press "2-" "5".

#### To return to the previous program number

Press JUMP. (This button functions as SWAP when the P IN P (see page 21) is displayed.)

#### If the sound is noisy or not heard

Press TV SYS until the sound becomes clear.

#### If the color program does not appear in color

Press COL SYS until the color becomes normal.

### Selecting TV Program by Channel Number (not by program number)

See page 29 for the channel numbers.

1 Press P/C so that C- appears.

2 While C- is on, select the channel system by pressing TV SYS.

The TV becomes channel tuning mode.

3 While C- is on, press the channel number.

To select channel 5, press "0", "5".

To select channel 25, press "2", "5".

#### To skip channels

1 Press P/C so that C- appears.

2 Select the channel number to be skipped using the number buttons or PROGR/PAGE +/- buttons.

3 Press CLEAR.

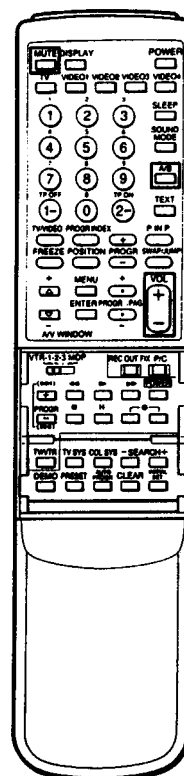
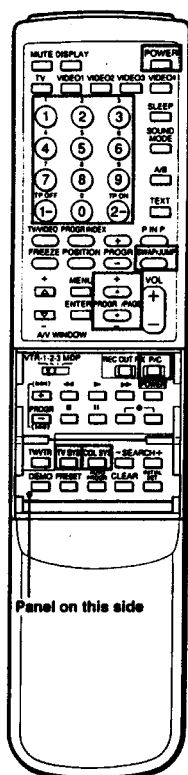
Repeat steps 1 to 3 to skip other channels.

To restore the skipped channel, tune in the channel and press PRESET.

#### To select TV programs by program number

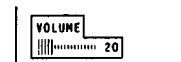
1 Press P/C so that P- appears.

2 While P- is on, press the program number.



### Adjusting the Volume

Press VOL +/-.



### Muting the Sound

Press MUTE.

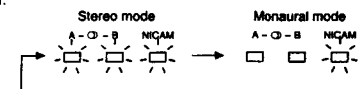
MUTE

To resume normal sound, press MUTE again.

### Receiving a Stereo or Bilingual Program

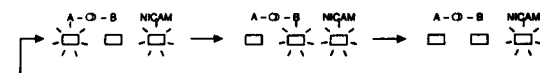
#### When the TV receives a NICAM stereo system program

The NICAM lamp, A and B mode lamps light. Press A/B to select stereo or monaural mode. If the signal is very weak, the sound becomes monaural. The NICAM, A and B mode lamps go off.



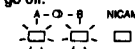
#### When the TV receives a NICAM bilingual system program

The NICAM lamp, A and/or B mode lamp(s) light. Press A/B so that the lamp (A or B) of the mode you want lights up.



#### When the TV receives a German stereo system program

The A and B mode lamps light. If the signal is very weak, the sound becomes monaural. The lamps go off.



#### When the TV receives a German bilingual system program

A and/or B mode lamp(s) light(s). Press A/B so that the lamp (A, B, or A and B) of the mode you want lights up.

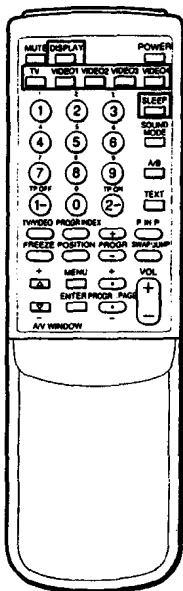


#### Who can receive the NICAM stereo/bilingual system

The NICAM stereo/bilingual system is receivable in Hong Kong, Singapore, New Zealand, etc.

#### Who can receive the German stereo/bilingual system

The German stereo/bilingual system is receivable in Australia, Malaysia, Thailand, etc.



## Watching Video Input

Using the VIDEO 1, VIDEO 2, VIDEO 3, and VIDEO 4 buttons, select the video input. To go back to the normal TV picture, press TV.

### When you select VIDEO 4

If "SELECT INPUT MODE" appears on the screen, press the VIDEO 4 INPUT/REC OUT button on the front panel of the TV to select INPUT (IN).

**On the TV**  
Press TV/VIDEO.

## Displaying the On-screen Indications

### Press DISPLAY.

The program number, color and TV system setting and sound mode appear. They, except the program number, will disappear after some seconds. Press again to make indications disappear.

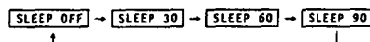
In channel tuning mode (C--), channel number, channel system and sound mode appear.



## Using the Sleep Timer

You can select the time period after which the TV automatically switches into standby mode. Select the time period by pressing SLEEP.

The time period (in approximate minutes) changes as follows:



About one minute before the TV switches into standby mode, "SLEEP" is displayed on the screen.

**To switch off the sleep timer**  
Press SLEEP until "SLEEP OFF" appears.

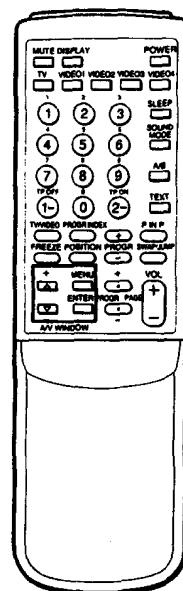
**To check the remaining time**  
Press SLEEP.

If you do not want to change the remaining time, leave it until it disappears automatically.

### Setting the sleep timer using the menu or on the TV set

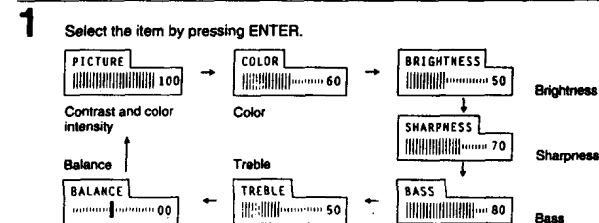
Use the MENU, ENTER, Δ and ∇ buttons on the Remote Commander or on the TV.

- 1 Press MENU.
- 2 Move the cursor to "SLEEP" using Δ or ∇.
- 3 Press ENTER until the time period you want appears at "SLEEP: \_".



## Adjusting the Picture and Sound

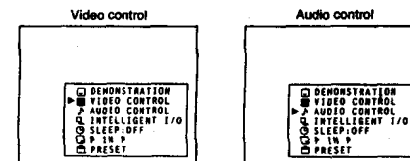
Although the picture and sound are adjusted at the factory, you can adjust them to suit your own taste.



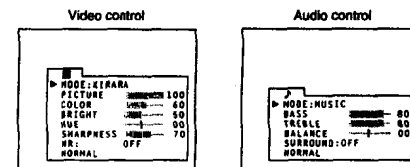
- 2 Using Δ or ∇ button, adjust the item to your taste.

**Adjusting the picture and sound using the menu or on the TV set**  
Use the MENU, ENTER, Δ and ∇ buttons on the Remote Commander or on the TV.

- 1 Press MENU.
- 2 To adjust the picture, move the red cursor to "VIDEO CONTROL" using Δ or ∇, then press ENTER.  
To adjust the sound, move the red cursor to "AUDIO CONTROL" using Δ or ∇, then press ENTER.



- 3 Move the red cursor to the item you want to adjust using Δ or ∇, then press ENTER.

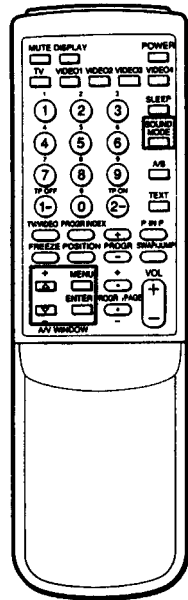


- 4 Adjust the item. (See the table on page 20.)

- 5 Press MENU to turn off the menu.



## 1-8. PICTURE IN PICTURE (P IN P)



### Effect of each control

#### Picture

Item	Press	Effect
MODE	ENTER	→ KIRARA → MIDDLE → SOFT
PICTURE	Δ/V → ENTER	Less [     ] More
COLOR	Δ/V → ENTER	Less [     ] More
BRIGHT	Δ/V → ENTER	Darker [     ] Brighter
HUE	Δ/V → ENTER	Greenish [     ] Reddish (for NTSC signal only)
NR <sup>1)</sup>	ENTER	→ OFF → ON
NORMAL	ENTER	"NORMAL" becomes red in a moment and the settings are reset to the factory preset levels.

1) Noise reduction. Set to ON when the picture is noisy because of a weak signal or tape deterioration.

#### Sound

Item	Press	Effect
MODE	ENTER	→ MUSIC → STANDARD → NEWS
BASS	Δ/V → ENTER	Less [     ] More
TREBLE	Δ/V → ENTER	Less [     ] More
BALANCE	Δ/V → ENTER	Left speaker [     ] Right speaker
SURROUND	ENTER	→ OFF → MUSIC <sup>2)</sup> → MOVIE <sup>3)</sup> → SPACE <sup>4)</sup>
NORMAL	ENTER	"NORMAL" becomes red in a moment and the settings are reset to the factory preset levels.

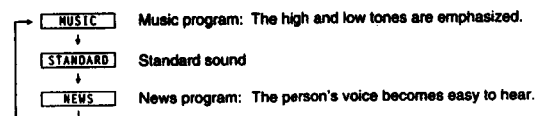
- 2) MUSIC mode is effective for music programs.  
3) MOVIE mode is effective for movie programs.  
4) SPACE mode gives spacious monaural sound.

#### Notes

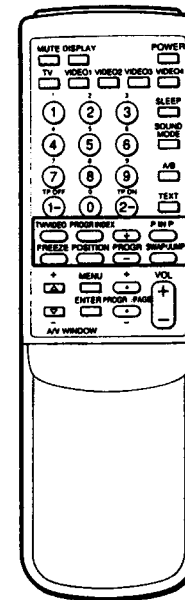
- When the menu is displayed, you cannot change the program using the number buttons. Use PROG/PAGE +/-.
- When there is no signal, the screen is blue. However, the screen is noisy when the menu or the P IN P (see page 21) are displayed.

### Selecting the Sound Mode

You can select a proper sound mode in accordance with the program.  
Select the sound mode by pressing SOUND MODE.



### Buttons for P IN P operation



With this function you can display a "P IN P screen" (small picture) within the main picture of TV program or video input. In this way you can watch or monitor TV program or the video input from any connected equipment while watching TV or other video input. For information about connection of other equipment, see page 25.

### Switching P IN P on and off

Press P IN P.

The P IN P screen is displayed. The P IN P picture comes from the source chosen when the TV was last used.

### To switch P IN P off

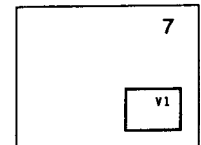
Press P IN P again.

### Selecting a P IN P source

To select a TV program, use PROG+ and - buttons of the P IN P section.  
To select a video input, press TV/VIDEO.

Each time you press TV/VIDEO, the indication at the top right corner of the P IN P screen changes:

→ TV program number → V1 → V2 → V3 → V4



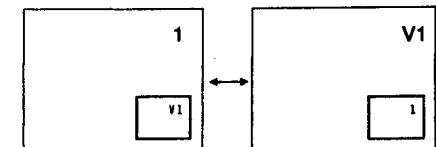
#### Notes

- If no video source has been connected, the P IN P screen is black.
- You may not be able to receive some channels in P IN P, even though they are being received for the main picture.
- If you display the signals for different color systems (PAL, SECAM, NTSC) for the main picture and in the P IN P, size of the P IN P may be different.
- If a TV channel in which no program is broadcast is received for the P IN P screen, the program number of P IN P may become black.

### Swapping screens

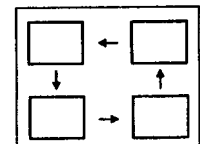
Press SWAP.

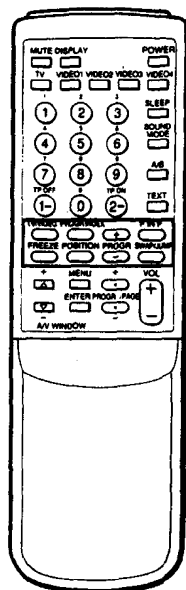
The main screen switches the picture with the P IN P screen.



### Changing the position of the P IN P

Press POSITION repeatedly to change the position of the P IN P screen. There are four different positions available.





### Freezing the P IN P picture

Press FREEZE.

To restore the normal picture, press FREEZE again.

### Note

If you press FREEZE when there is no P IN P screen, the main picture is frozen and appears in the P IN P screen.

### Checking the programs available

Press PROGR INDEX. The preset programs appear in the P IN P screen one by one in sequence.

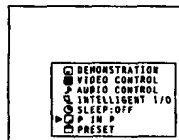
To stop checking programs, press PROGR INDEX.

### Operating P IN P using the menu or on the TV set

Use the MENU, ENTER, Δ and ∇ buttons on the Remote Commander or on the TV.

Using the menu, you can change the P IN P size and adjust the P IN P headphone volume to hear through the headphone besides the above operations.

- 1 Press MENU.
- 2 Move the red cursor to "P IN P" using Δ or ∇, then press ENTER.



- 3 Move the red cursor to the item you want to set using Δ or ∇, then press ENTER.

INPUT: TV → VIDEO 1 → VIDEO 2 → VIDEO 3 → VIDEO 4

SIZE: SMALL → LARGE

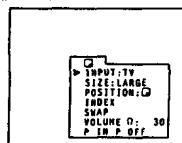
POSITION: [Small icon] → [Medium icon] → [Large icon]

INDEX: Performed on the P IN P screen.

SWAP: Performed on the TV.

VOLUME: Adjust using Δ or ∇, then press ENTER.

P IN P OFF: The P IN P screen disappears.

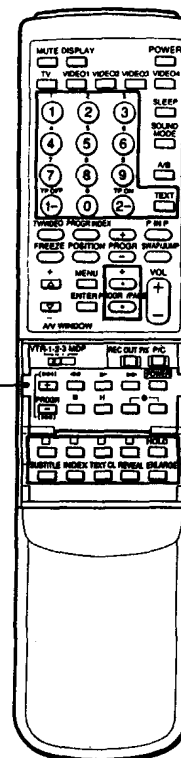


### Note

When you display a VTR picture at speeds other than normal speed, such as fast-forward playback, on the P IN P screen, the picture may be noisy depending on the VTR. The picture may be improved by selecting the "SMALL" size of the P IN P screen.

## 1-9. TELETEXT

### Buttons for teletext operation



TV stations broadcast an information service called Teletext via a TV channels. Teletext service allows you to receive various information pages such as weather reports or news at any time you want.

### Switching Teletext on and off

- 1 Select the TV channels which carries the teletext broadcast you want to watch.
- 2 Press TEXT to switch on the teletext.  
A teletext page will be displayed (usually the index page).  
If there is no teletext broadcast, P100 is displayed at the top left corner of the screen.

### To switch Teletext off

Press TV.

### Superimposing a Teletext page on the TV picture (MIX mode)

Press TEXT.

Each time you press TEXT, the screen changes:



### Checking the contents of the Teletext

Press INDEX to have the overview of the contents of the teletext and page numbers.

### Selecting a Teletext page

Use the number buttons to input the three digits of the page number you want to turn on.

If you have made a mistake, type in any three digits. Then re-enter the correct page number.

To access the next or preceding page, press PAGE + or PAGE -.

### Holding a Teletext page

A teletext page may consists of several subpages. You can stop the page scrolling in order to read the text at your own pace.

Press HOLD.

The HOLD symbol "Ⓜ" is displayed at the top left of the screen.

To resume normal teletext operation, press TEXT.

### Enlarging the Teletext display

Press ENLARGE once to enlarge the upper half, twice to enlarge the lower half, and again to resume normal size.

### Revealing concealed information

Sometimes pages contain concealed information, such as an answer to a quiz. The reveal option lets you disclose the information.

Press REVEAL.

To conceal the information, press REVEAL again.

### Displaying subtitles

Press SUBTITLE.

To make the subtitle disappear, press SUBTITLE again.

### Waiting for Teletext page while watching the TV program

After requesting a page, press TEXT CLEAR.  
When the page is available, the page number is displayed at the top left corner of the screen.  
Press TEXT to switch the teletext on.

### Displaying Teletext page at predetermined time

- 1 Request a time coded page (e.g. alarm page).
- 2 Press TP ON.  
"T\*\*\*\*" appears at the bottom of the screen.
- 3 Enter your request time of four digits using the number buttons. For example, if you enter 0730, the indication will become "T0730".
- 4 To watch the TV program, press TEXT CLEAR.
- 5 At the requested time, the page number is displayed at the top left corner of the screen.  
To view the page, press TEXT.  
To cancel the page, press TP OFF.

### Using Fastext

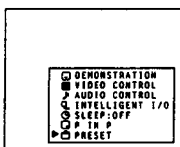
With Fastext you can access pages with one key stroke.  
When a Fastext page is broadcast, a color-coded menu will appear at the bottom of the screen. The colors of this menu correspond to the RED, GREEN, YELLOW and CYAN buttons on the Remote Commander.  
Press the color button which corresponds to the color-coded menu. The page will be displayed after some seconds.

### Switching to a Teletext page you want directly while watching a TV

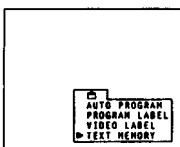
Using the menu, you can set teletext pages you want so that you can switch to the pages directly while watching a TV by pressing a color button.

### To set the page

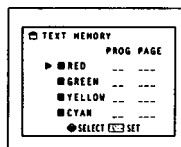
- 1 Press MENU.
- 2 Move the red cursor to "PRESET" using Δ or ▽, then press ENTER.



- 3 Move the red cursor to "TEXT MEMORY" using Δ or ▽, then press ENTER.



- 4 Move the red cursor to a color you want using Δ or ▽, then press ENTER.  
The colors correspond to the color of the buttons.



- 5 Press the program number button and press ENTER.  
For the program number 5, press "5".  
For the program number 25, press "2—" and "5".
- 6 Press the page number button of three digits and press ENTER.  
If you made a mistake, enter any three digits and then enter the correct three digits.  
If you want to cancel the operation, press "9" for the first digit.
- 7 Repeat steps 4 to 6 for other pages.
- 8 Press MENU to return to the TV display.

To view the page, press the color button of the page while watching the TV.

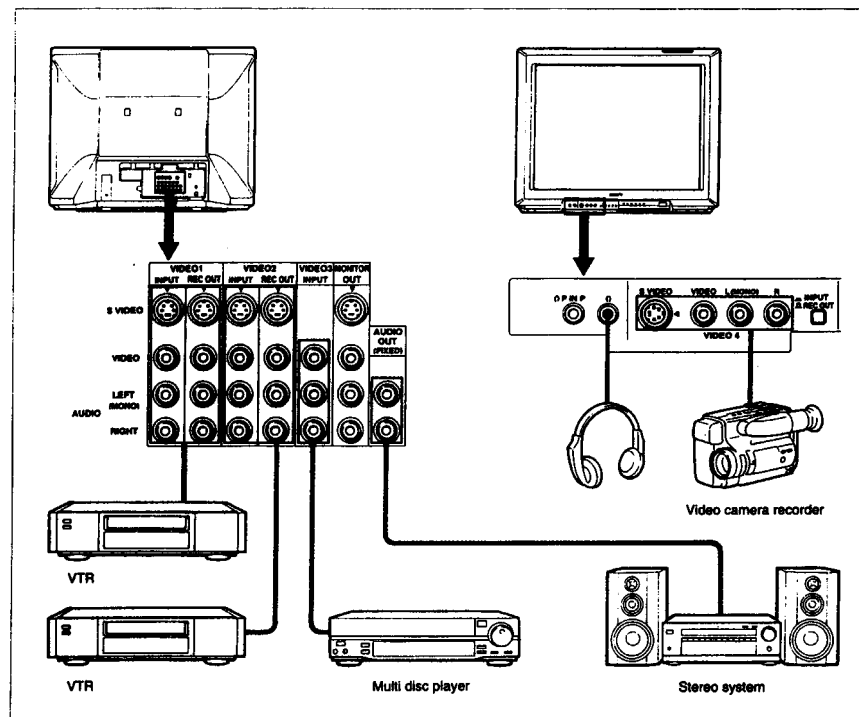
### Note

The color buttons function as the FAST TEXT buttons in Teletext mode.

## 1-10. CONNECTING AND OPERATING OPTIONAL EQUIPMENT

You can connect optional audio/video equipment to this TV such as VTRs, multi disc players, and stereo systems.

After connection, select the video input and output (page 18).



**If the picture or the sound is distorted**  
Move the VTR away from the TV.

### S-video Input (Y/C Input)

Video signals may be separated into Y (luminance or brightness) and C (chrominance) signals. Separating the Y and C signals prevents them from interfering with one another, and therefore improves picture quality. This TV is equipped with two S-video input jacks through which these separated signals can be input directly.

### Notes

- Only the PAL and NTSC signals can be input to the S-video jacks.
- The signals output from the S VIDEO REC OUT jacks are those input to the S VIDEO INPUT jacks. The signals input to the VIDEO jacks are not output from the S VIDEO REC OUT jacks.

### If both S-video and video signals are input

The S-video input signal is selected. To view a video signal, disconnect the S-video connection.

### When connecting a monaural VTR

Connect only the white L (mono) jack on the TV.

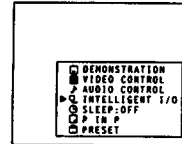
## 1-11. SELECTING INPUT AND OUTPUT

Using the INTELLIGENT I/O function, you can:

- record a source while watching the source.
- record a source while watching another source.
- record picture and sound from different sources.
- record a source while the TV is in standby mode.

### Setting the INTELLIGENT I/O

- 1 Press MENU.
- 2 Move the red cursor to "INTELLIGENT I/O" using  $\Delta$  or  $\nabla$ , then press ENTER.

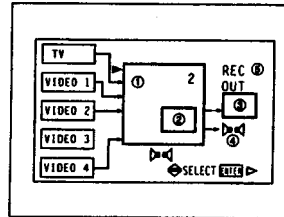


- 3 Select the item using  $\Delta$  or  $\nabla$ , then press ENTER.  
The color of the box or speaker mark becomes the color of the source selected.

- 1 Select the source to watch on the TV.
- 2 Select the source to be displayed on the P IN P screen.
- 3 Select the video to be recorded.
- 4 Select the sound to be recorded.
- 5 Make REC OUT in red or in white.

**Red:** The REC OUT FIX is on. The REC OUT FIX lamp lights. The recording source is fixed, therefore, even if you change the source to watch, the recording source does not change.

**White:** The REC OUT FIX is off. The REC OUT FIX lamp is off. The recording source changes accordingly when you change the source to watch.



- 4 Press MENU to go back to the normal TV picture.

**To change the program or video input after recording has started, or to turn off the TV (standby)**

- If you did not make "REC OUT" in red on the INTELLIGENT I/O page (the REC OUT FIX lamp is not lit), press REC OUT FIX on the Remote Commander.
- If you made "REC OUT" in red (the REC OUT FIX lamp is lit), you do not need any operation.

**When you set the INTELLIGENT I/O the next time**

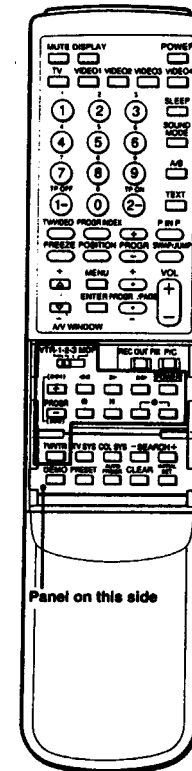
Make the "REC OUT" in white, if it is in red.

#### Notes

- After you started recording, do not turn off the TV by pressing the POWER switch on the TV. The recording stops.
- If you call the INTELLIGENT I/O page while watching the TV, the P IN P is displayed. To turn P IN P off, press P IN P.
- If you change TV program while recording a TV program, the newly selected TV program is recorded, even if you set the REC OUT FIX to on.

## 1-12. REMOTE CONTROL OF OTHER SONY EQUIPMENT

### Buttons for VTR operation



You can use the TV Remote Commander to control other remote-controlled video equipment such as: Beta, 8mm, VHS VTRs or multi disc players.

### Tuning the Remote Commander to the equipment

- 1 Set the VTR 1-2-3-MDP selector according to the equipment you want to control.

VTR 1: Beta or ED Beta VTR  
VTR 2: 8mm VTR  
VTR 3: VHS VTR  
MDP: Multi disc player

- 2 Use the buttons indicated in the illustration to operate the additional equipment.

If your video equipment is furnished with a COMMAND MODE selector: set this selector to the same position as the VTR 1-2-3-MDP selector on the TV Remote Commander.









If the equipment does not have a certain function, the corresponding button on the Remote Commander will not operate.

### When recording

When you use the  $\bullet$  (record) button, make sure to press these two buttons simultaneously.

## 1-13. TROUBLESHOOTING

If you have any problem, check the countermeasure for each symptoms listed below.  
If the problem persists, contact your nearest authorized service center or dealer.

Symptom	Countermeasure
Snowy picture Noisy sound 	<ul style="list-style-type: none"> <li>• Check the antenna.</li> <li>• Check the antenna connection on the TV and on the wall.</li> <li>• Check the DX/LOCAL switch. Set it to DX.</li> </ul>
Dotted lines or stripes 	This may be caused by local interference (e.g. cars, neon signs, hair dryers, etc.). Adjust the antenna for minimum interference.
Double images or "ghosts" 	This may be caused by reflections from nearby mountains or buildings. A highly directional antenna may improve the picture.
Good picture Noisy sound 	<ul style="list-style-type: none"> <li>• Check the TV SYS setting.</li> </ul>
No picture No sound 	<ul style="list-style-type: none"> <li>• Press POWER.</li> <li>• Check the antenna connection.</li> </ul>
Good picture No sound 	<ul style="list-style-type: none"> <li>• Press VOLUME +.</li> <li>• Press MUTE.</li> </ul>
No color 	<ul style="list-style-type: none"> <li>• Check the COL SYS setting.</li> </ul>
The picture disappears and the screen turns blue. 	The signal is too weak to be received properly. A highly directional antenna may improve the picture.
C-- appears when you press a program number.	Press P/C so that P-- appears. While P-- is on, press the program number.

## 1-14. PREVENTING THE TV FROM FALLING

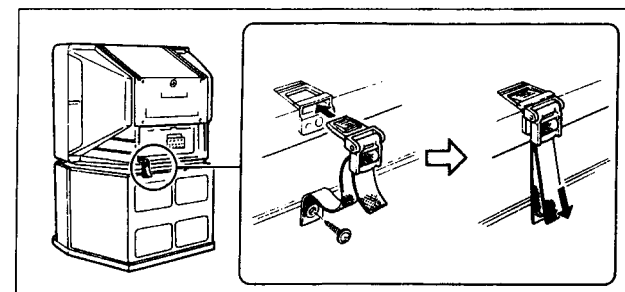
Because the front is heavier than the back, the TV may fall if it is not level, or a child pushes or climbs on it. To avoid such an accident, stabilize your TV using the supplied accessories.

### When you use the SU-S34 or SU-S29 AV rack (not supplied)

Stabilize the TV referring to the instructions of the rack.

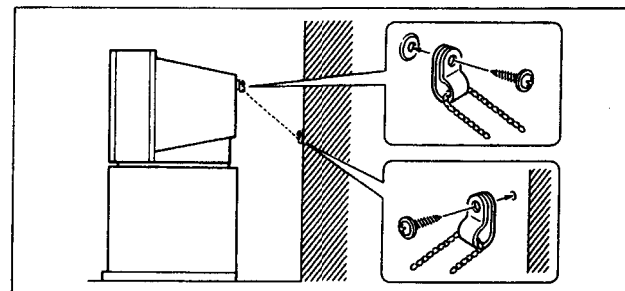
### When you use a TV stand other than the SU-S34 or SU-S29

Attach the supplied band to the TV stand using the supplied screw. Set the buckle into the slot and pull down the belt.



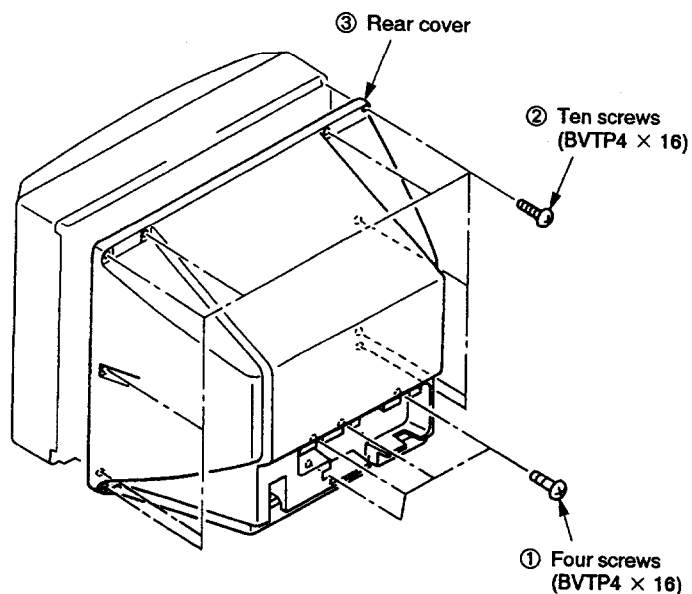
### When you stabilize the TV against a wall or pillar

Attach the supplied clamps to the hole on the rear of the TV and to the wall or pillar using the supplied screws. Pass a cord or chain with sufficient strength (not supplied) through the clamps.

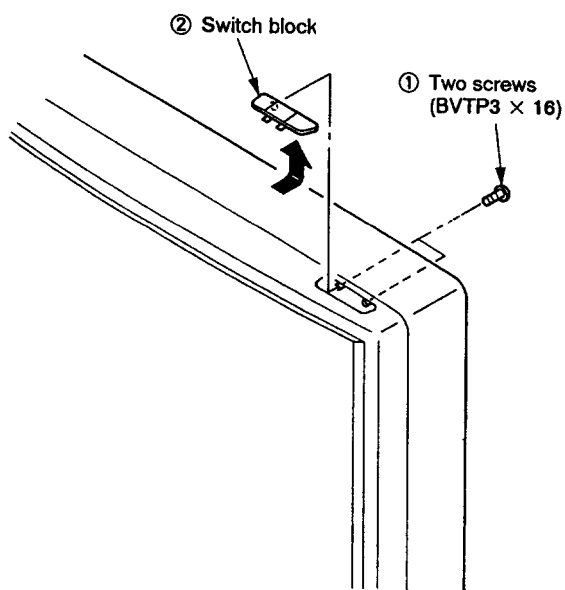


## SECTION 2 DISASSEMBLY

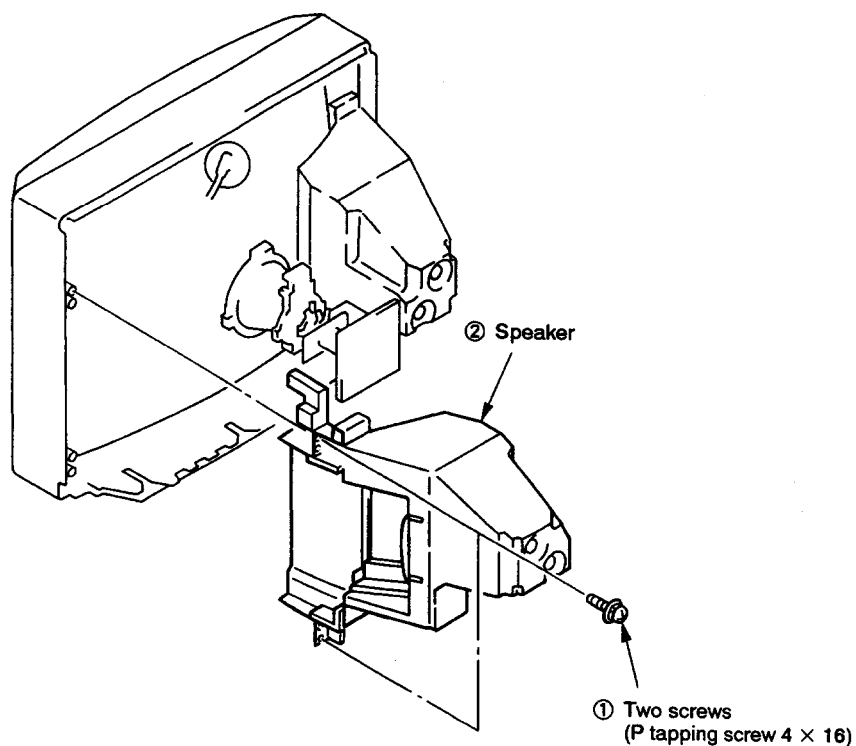
### 2-1. REAR COVER REMOVAL



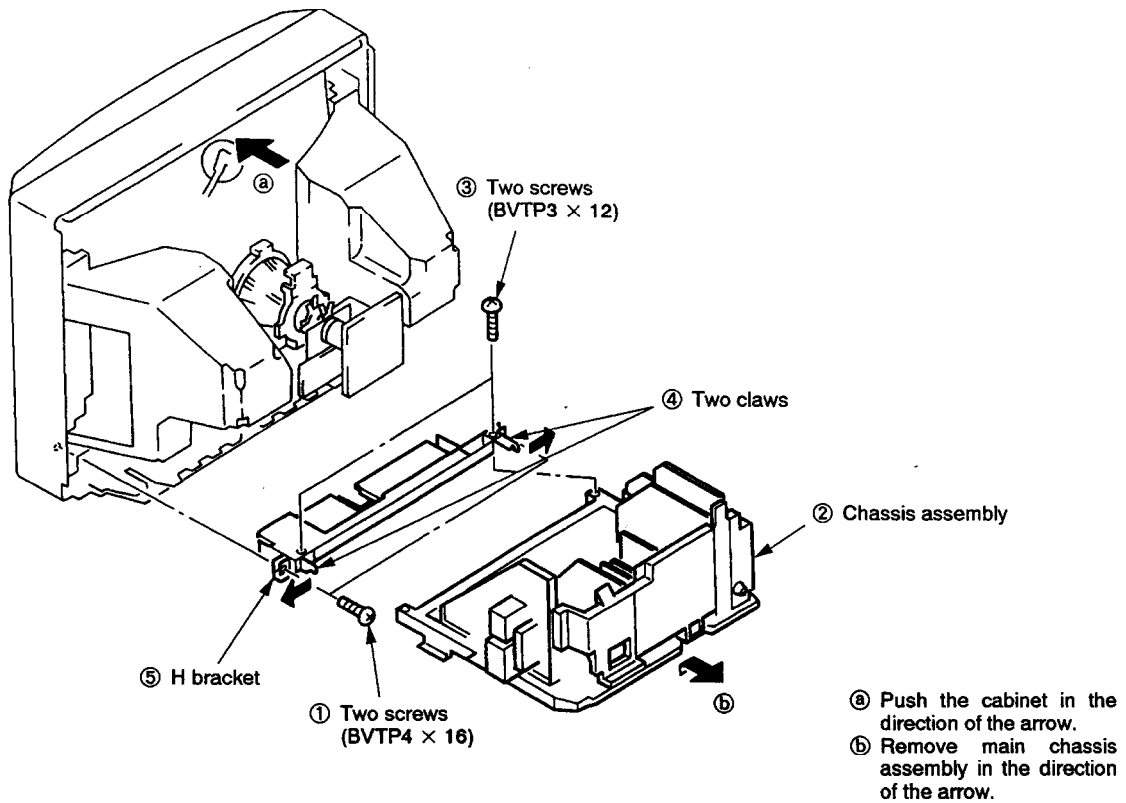
### 2-2. SWITCH BLOCK REMOVAL



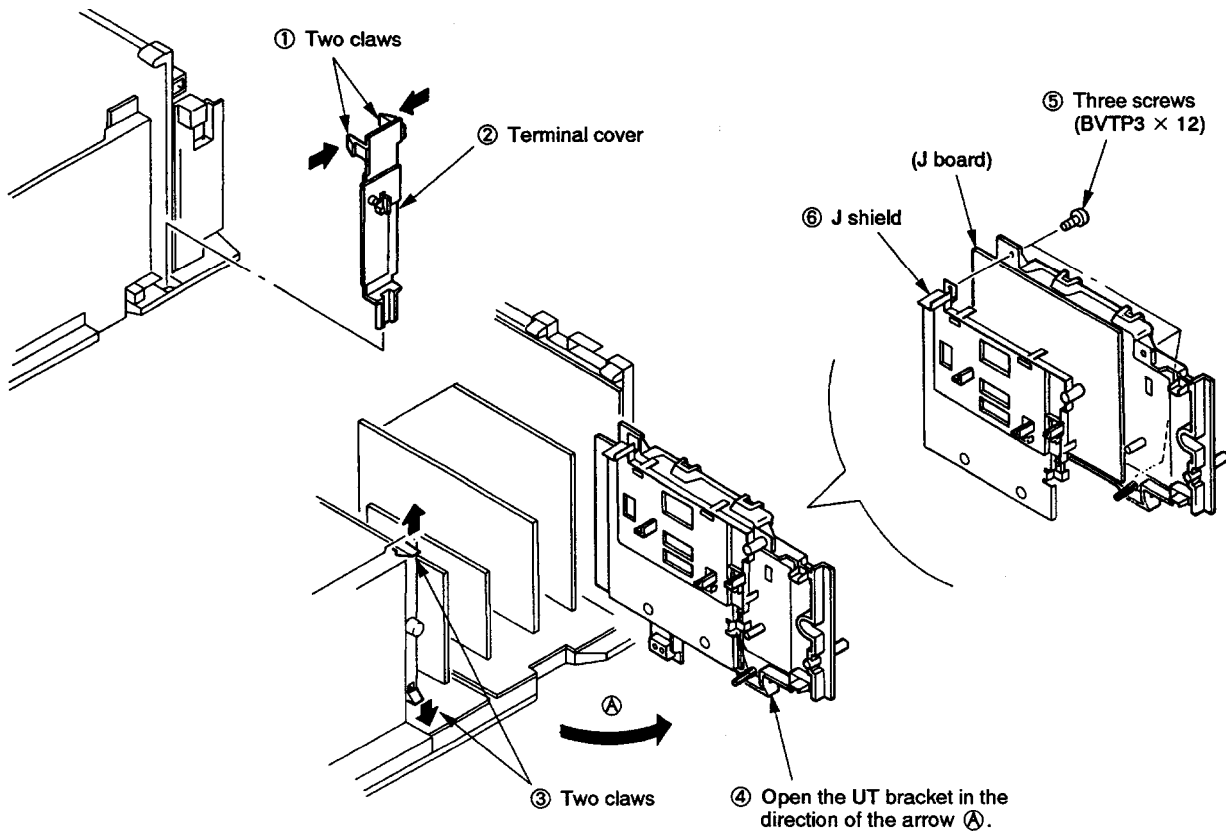
### 2-3. SPEAKER REMOVAL



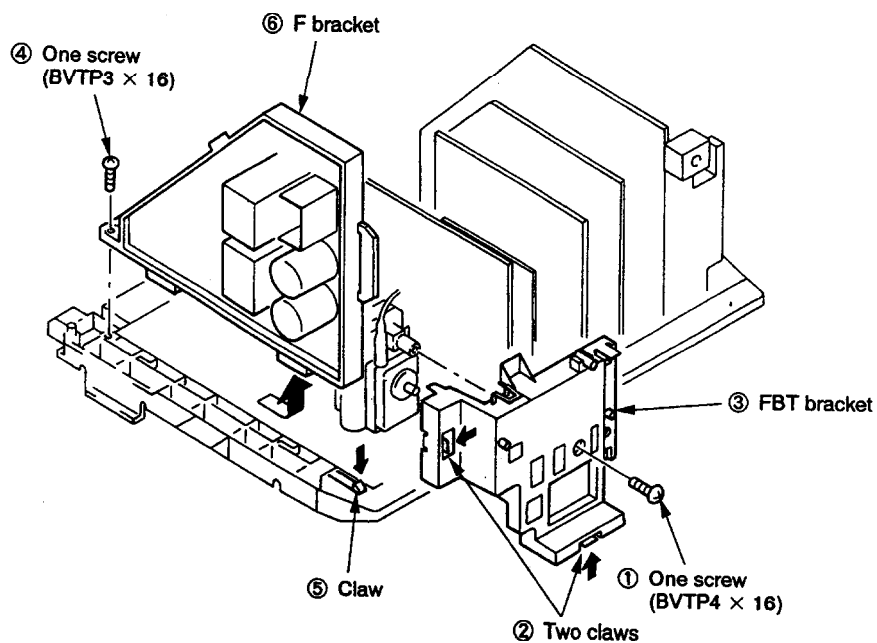
## 2-4. CHASSIS ASSEMBLY AND H BRACKET REMOVAL



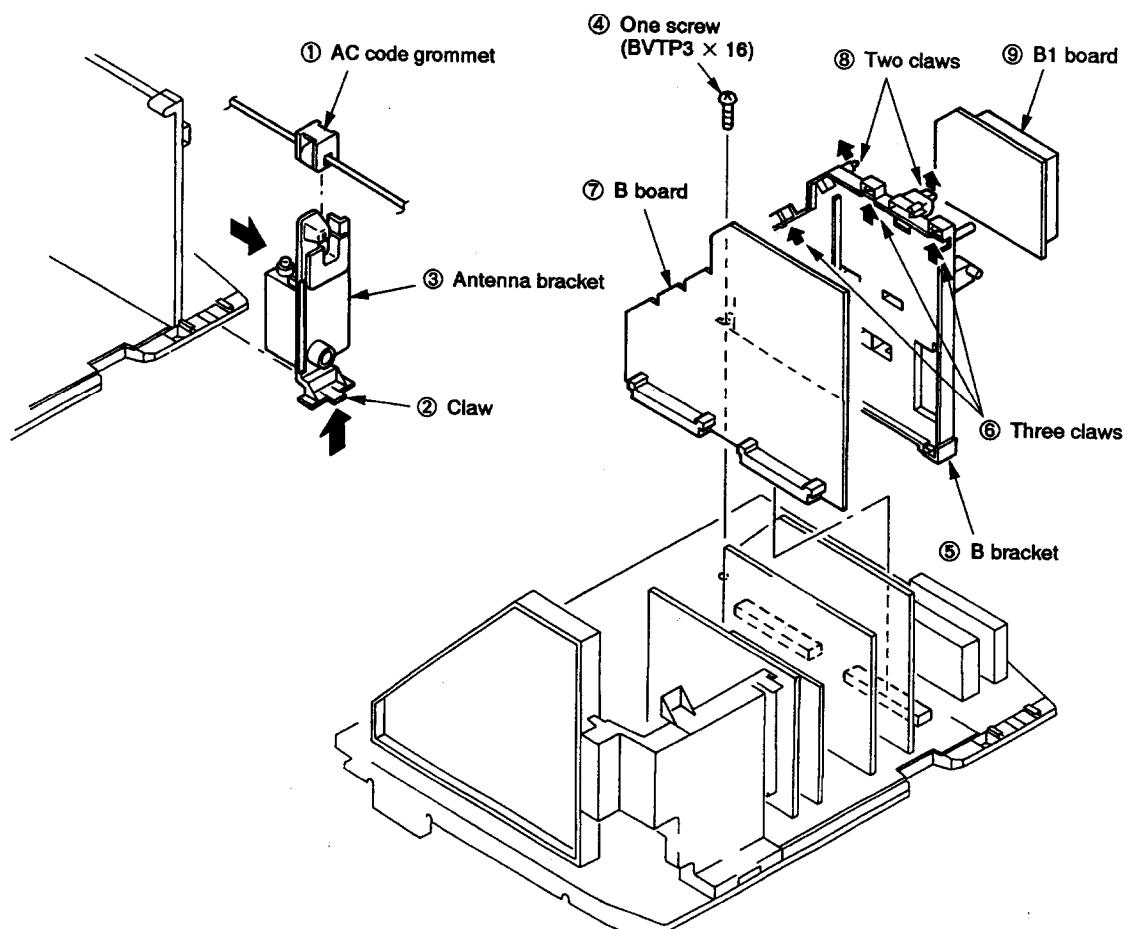
## 2-5. J BRACKET REMOVAL



## 2-6. F BRACKET REMOVAL

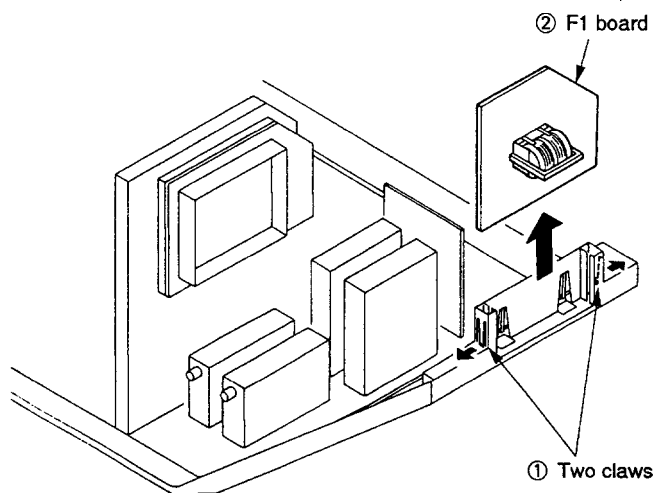


## 2-7. B AND B1 BOARDS REMOVAL

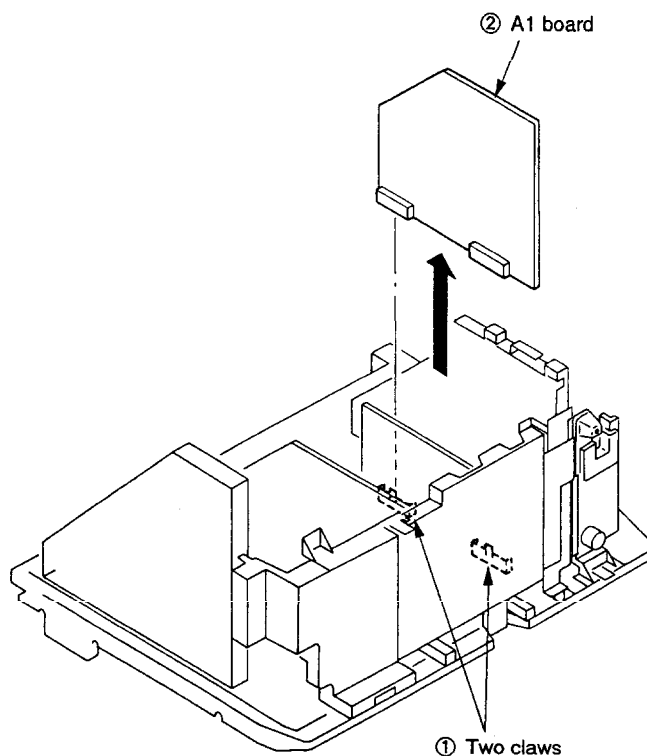




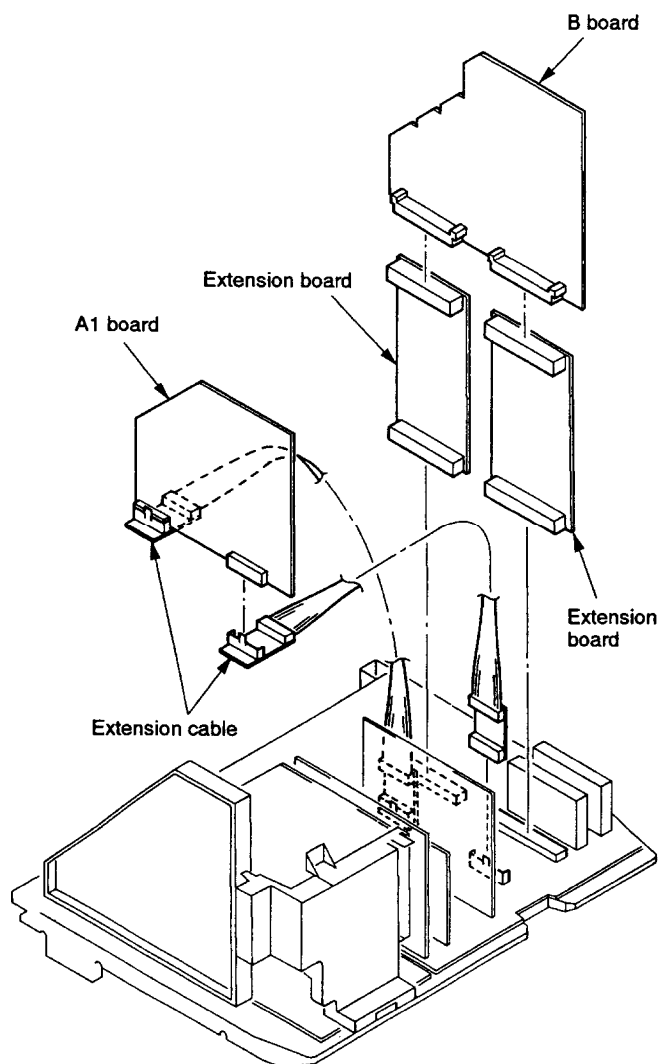
## 2-8. F1 BOARD REMOVAL



## 2-9. A1 BOARD REMOVAL



## 2-10. EXTENSION CABLE AND BOARD

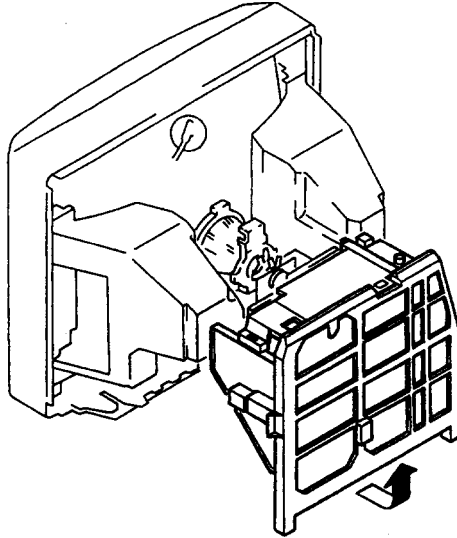


### • EXTENSION CABLES AND EXTENSION BOARDS LIST

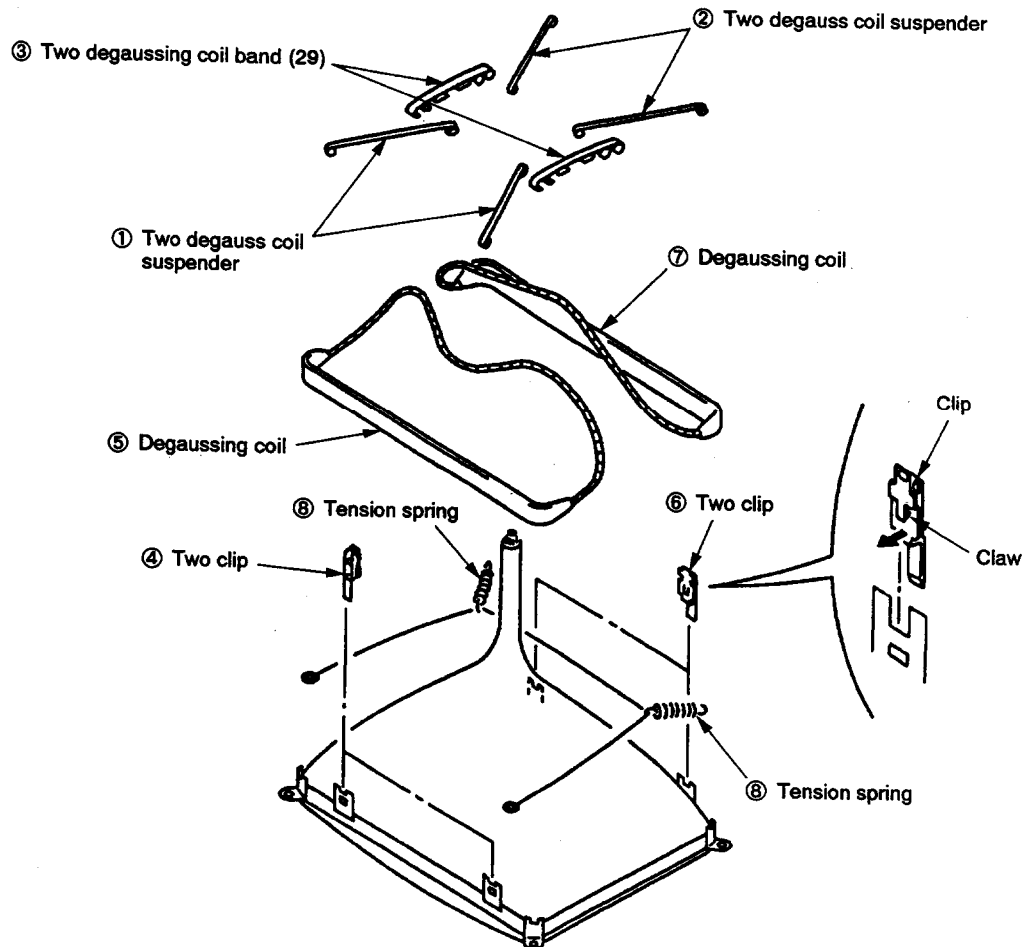
B board	3-702-556-01	50P	2
V board	3-702-108-01	10P	1
A1 board	3-702-564-01	11P	2
BP board	3-702-564-01	11P	1
	3-702-565-01	15P	1
S board	3-702-565-01	15P	1
D1 board	3-702-563-01	10P	2
VC board	3-702-563-01	10P	1

## 2-11. SERVICE POSITION

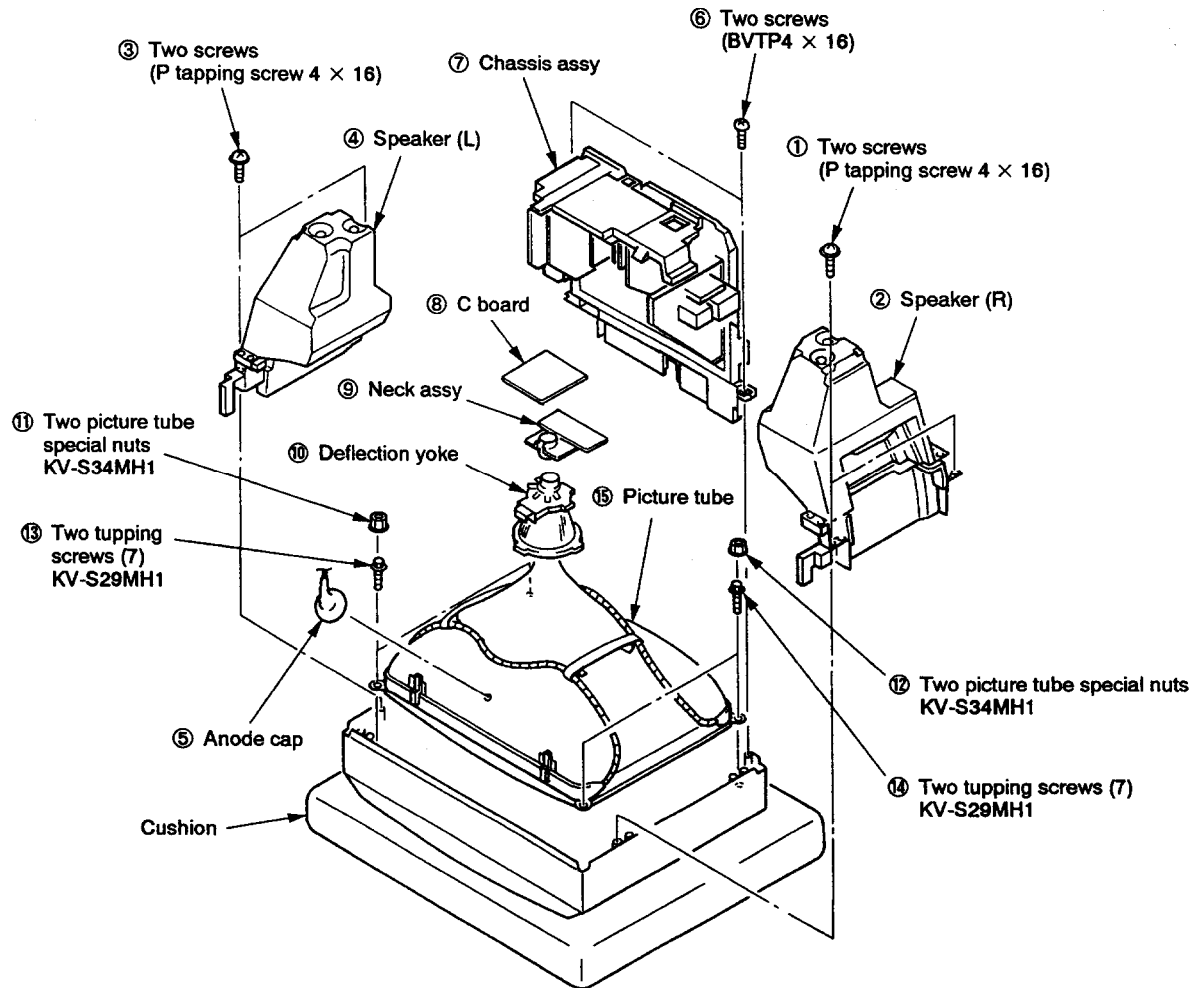
- ※ Remove the H bracket from the main chassis assy and then perform the following servicing.  
(Refer to 2-4. CHASSIS ASSY AND H BRACKET REMOVAL)



## 2-12. DEGAUSSING COIL REMOVAL



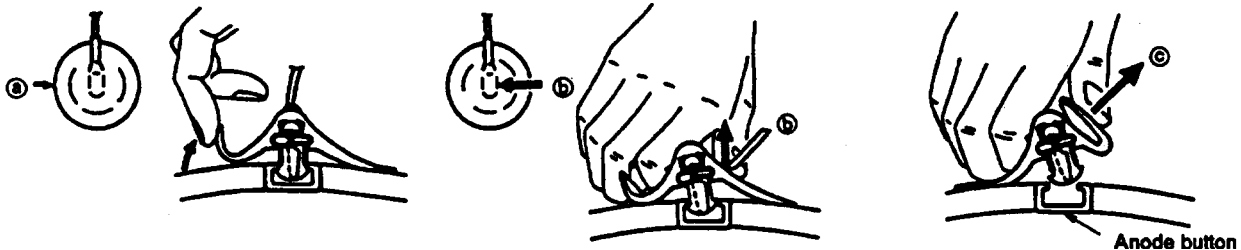
## 2-13. PICTURE TUBE REMOVAL



### • REMOVAL OF ANODE-CAP

NOTE : Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield or carbon painted on the CRT, after removing the anode.

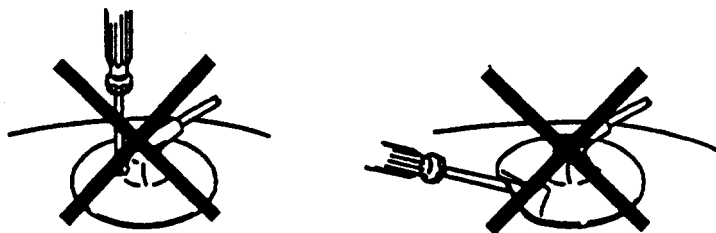
### • REMOVING PROCEDURES



- ① Turn up one side of the rubber cap in the direction indicated by the arrow ①.
- ② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow ②.
- ③ When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling up it in the direction of the arrow ③.

### • HOW TO HANDLE AN ANODE-CAP

- ① Don't hurt the surface of anode-caps with sharp shaped material!
- ② Don't press the rubber hardly not to hurt inside of anode-caps!  
A material fitting called as shatter-hook terminal is built in the rubber.
- ③ Don't turn the foot of rubber over hardly!  
The shatter-hook terminal will stick out or hurt the rubber.



## SECTION 3

### SET-UP ADJUSTMENTS

- When complete readjustment is necessary or a new picture tube is installed, carry out the following adjustments.
- Unless there is specific instruction to the contrary, carry out these adjustments with the rated power supply.
- Unless there is specific instruction to the contrary, set the controls and switches this way :
  - ⊙ Contrast ..... 80% (or remote control normal)
  - ⊙ Brightness ..... 50%

#### Preparations :

- In order to reduce the influence of geomagnetism on the set's picture tube face it east or west.
- Switch on the set's power and degauss with the degausser.

#### 3-1. BEAM LANDING

1. Input the white signal with the pattern generator.
  - Contrast } normal
  - Brightness }
2. Position neck assy as shown in Fig.3-3.
3. Set the pattern generator raster signal to red.
4. Move the deflection yoke to the rear and adjust with the purity control so that the red is at the center and the blue and the green take up equally sized areas on each side. (See Fig.3-1, 3-2, 3-4)
5. Move the deflection yoke forward and adjust so that entire screen is red. (See Fig.3-1)
6. Switch the raster signal to blue, then to green and verify the condition.
7. When the position of the deflection yoke has been decided, fasten the deflection yoke with the screws.
8. If the beam does not land correctly in all the corners, use a magnet to adjust it. (See Fig.3-5)

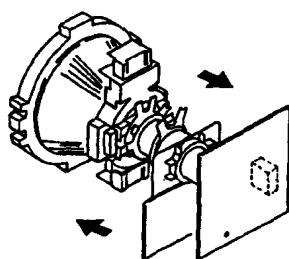


Fig.3-1

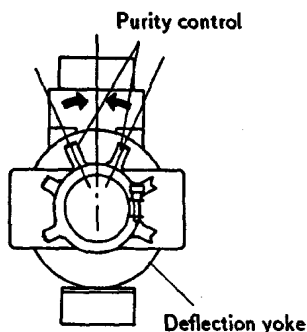


Fig.3-2

- Carry out the following adjustments in this order :
  1. Beam landing
  2. Convergence
  3. Focus
  4. White balance

**Note:** Testing equipment required.

1. Color bar/pattern generator
2. Degausser
3. DC power supply
4. Digital multimeter
5. Oscilloscope

Fig.3-3

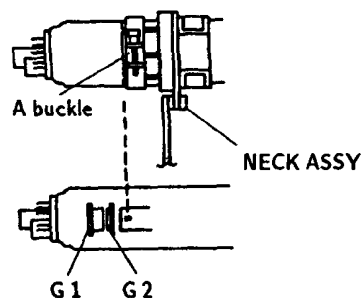


Fig.3-4

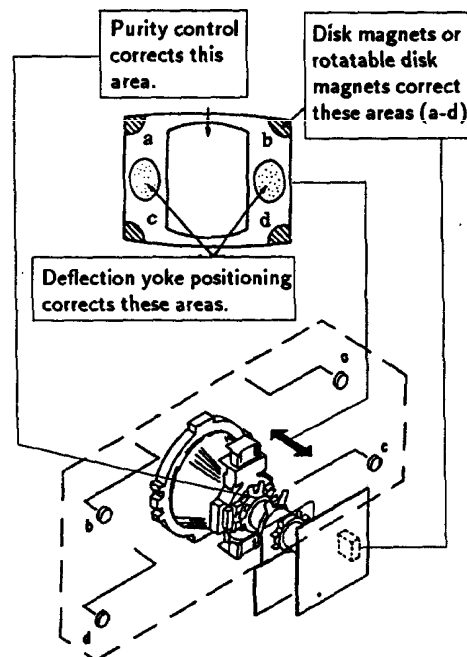
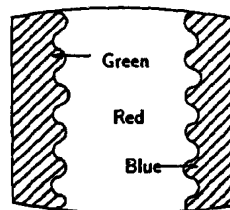


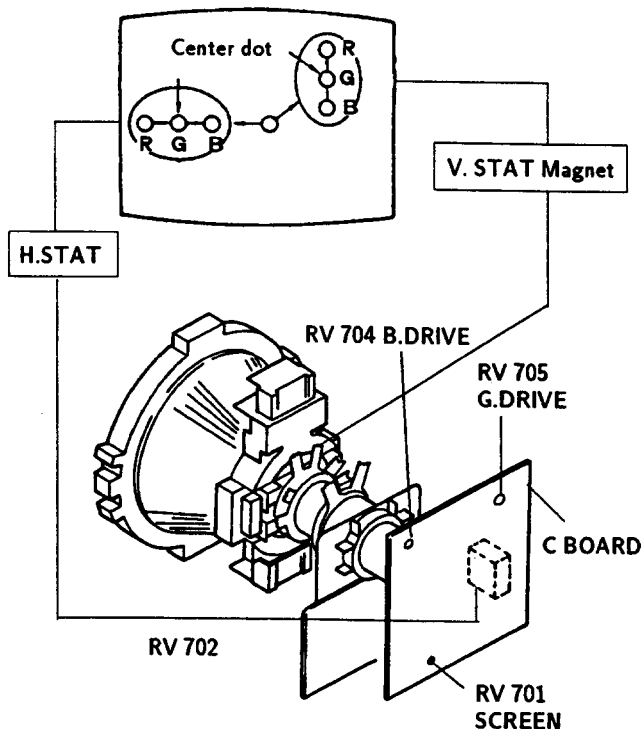
Fig.3-5

### 3-2. CONVERGENCE

#### Preparations :

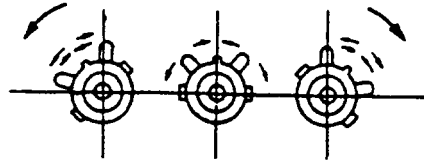
- Before starting this adjustment, adjust the focus, horizontal size, and vertical size.
- Minimize the brightness setting.
- Provide dot pattern.

#### (1) Horizontal and vertical static convergence

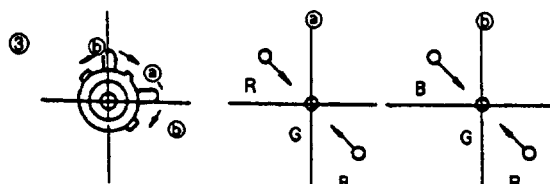
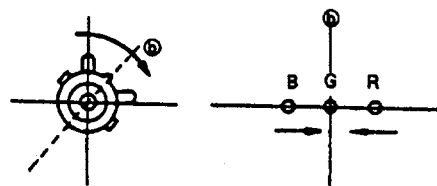
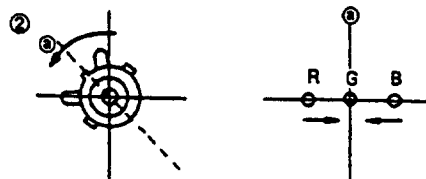
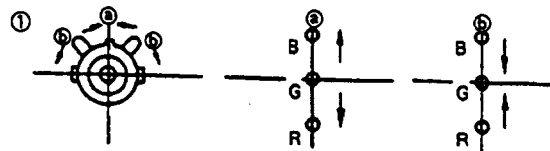


1. (Moving horizontally), adjust the H.STAT control so that the red, green, and blue points are on top of each other at the center of the screen.
2. (Moving vertically), adjust the V.STAT magnet so that the red, green, and blue points are on top of each other at the center of the screen.
3. If the H.STAT variable resistor cannot bring the red, green, and blue points together at the center of the screen, adjust the horizontal convergence with the H.STAT variable resistor and the V. STAT magnet in the manner given below.  
(In this case, the H.STAT variable resistor and the V. STAT magnet influence each other)

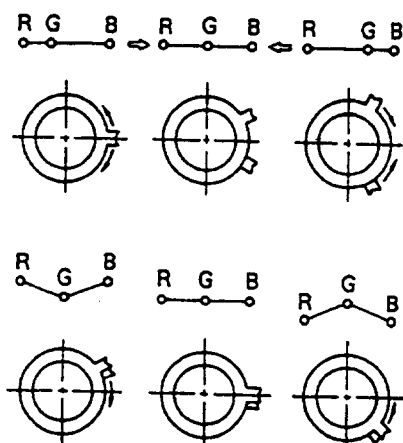
- Tilt the V.STAT magnet and adjust the static convergence by opening or closing the V.STAT magnet.



4. If the V.STAT magnet is moved in the direction of the ② and ③ arrows, the red, green, and blue points move as shown below.

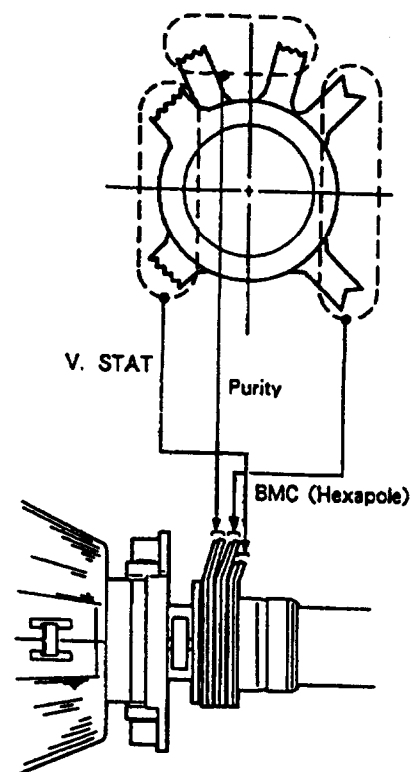


● Operation of BMC (Hexapole) Magnet



- The respective dot positions resulting from moving each magnet interact, so be sure to perform adjustment while tracking.

Use the H.STAT VR to adjust the red, green, and blue dots so they coincide at the center of screen (by moving the dots in the horizontal direction).



(2) Dynamic convergence adjustment

Preparations :

- Before starting this adjustment, adjust the horizontal static convergence and the vertical static convergence.

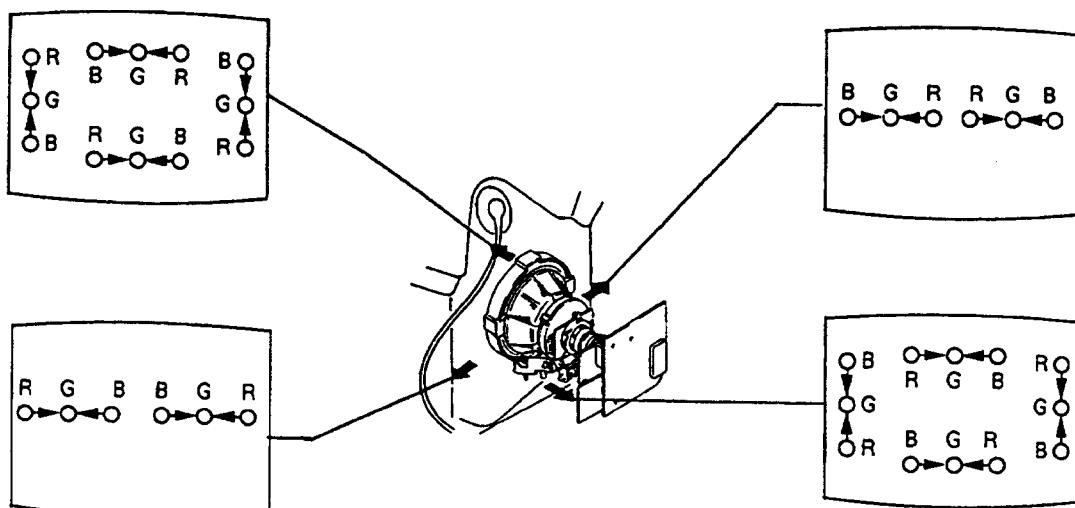
1. Slightly loosen the deflection yoke screws.

2. Remove the deflection yoke spacer.

3. Move the deflection yoke as shown in the figure below and optimize the convergence.

4. Tighten the deflection yoke screws.

5. Install the deflection yoke spacer.



**(3)Dynamic convergence adjustment**

1. Adjust horizontal convergence located at the center position of the screen with H STAT VR.
2. Dynamic convergence adjustments are made with the RM-821 that comes with this unit.

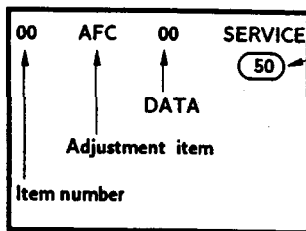
**Entering service mode**

With the unit on standby

↓  
"DISPLAY"  
↓  
"5"  
↓  
"VOL(+)"  
↓  
"POWER"

This operation sequence puts the unit into service mode.

The screen display is :



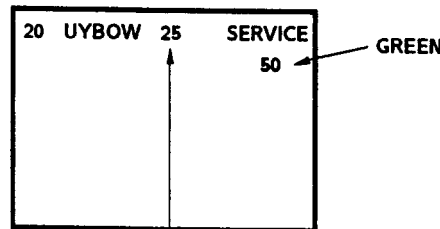
Depends on the signals.  
PAL, SECAM : 50  
NTSC : 60

"1", "4" Raise/lower the service item number  
"3", "6" Raise/lower the data  
"MUTE" Writes  
"0" Executes the writing

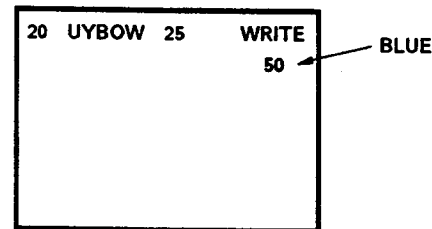
**Item Number 20**

This explanation uses UYBOW as an example.

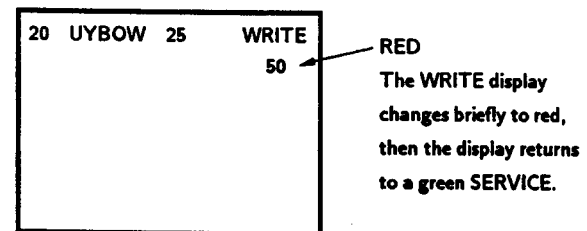
1. Select 20 UYBOW with the "1" and "4" buttons.
2. Raise/lower the data with the "3" and "6" buttons.
3. Select the optimum stste.
4. Write with the MUTE button. (The display changes to blue WRITE.)
5. Execute the writing with the "0" button. (The WRITE display changes briefly to red.)



Adjusted with "3" and "6" buttons



Written with "MUTE"

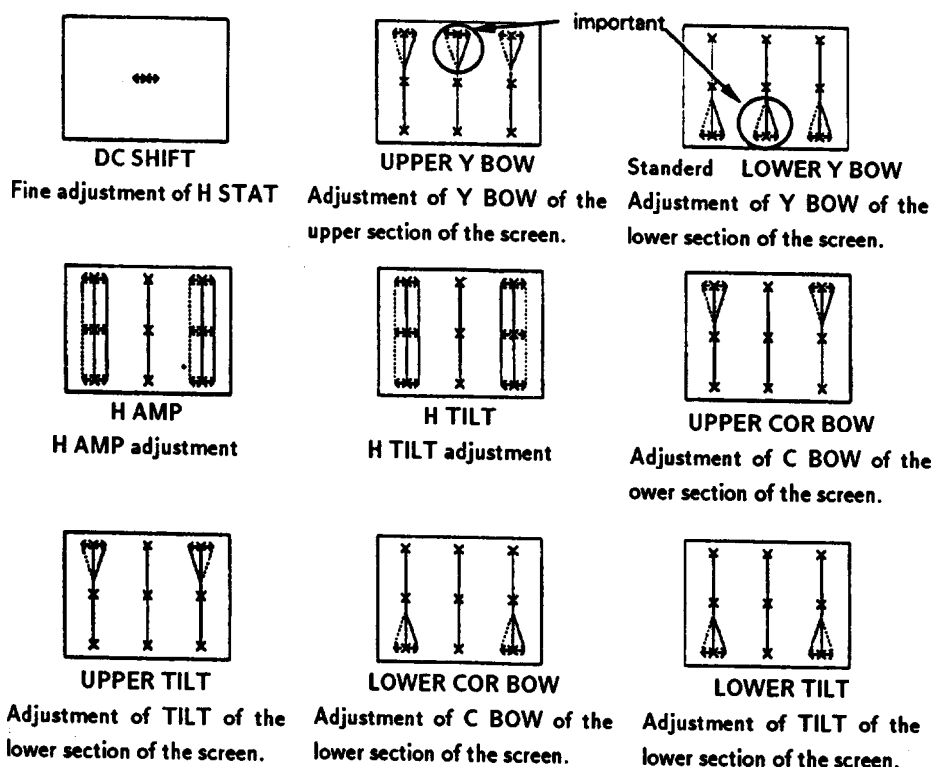


Write excuted with "0"

"1", "4" Select the adjustment item.  
↓  
"3", "6" Raise/lower the data.  
↓  
"MUTE" Writes.  
↓  
"0" Executes the writing.

LABSAL	Display	Standard		50/60	Remarks
		50	60		
19	DSHFT	0 C	0 C	o	DC SHIFT (CXA 1526)
20	UYBOW	25	25	o	U.Y.BOW (CXA 1526)
21	LYBOW	25	25	o	L.Y.BOW (CXA 1526)
22	H.AMP	1 F	1 F	o	H.AMP (CXA 1526)
23	H.TILT	1 F	1 F	o	H.TILT (CXA 1526)
24	UCBOW	1 F	1 F	o	U.C.BOW (CXA 1526)
25	UTILT	1 F	1 F	o	U.TILT (CXA 1526)
26	LCBOU	1 F	1 F	o	L.C.BOW (CXA 1526)
27	LTILT	1 F	1 F	o	L.TILT (CXA 1526)

R.G.B.dots movement on the screen of the set



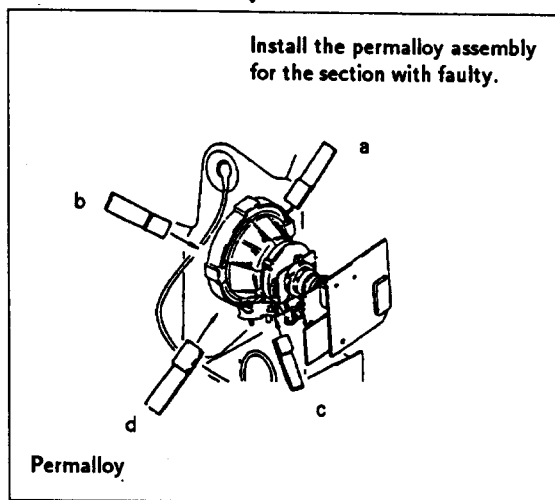
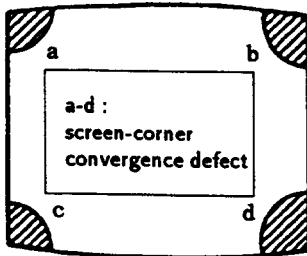
At this time, H.TILT, H.AMP, UPPER TILT, UPPER COR, BOW, LOWER TILT, and LOWER COR, BOW look like all the same, but the movement of the

right and left dots are reverse in all the TILT system. (Pay attention to the dotted lines.)

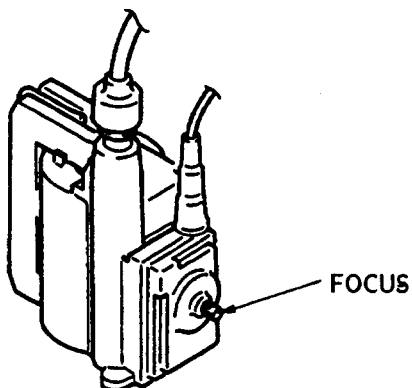


**(4) Screen corner convergence**

If you cannot adjust corner convergence properly, correct them with permalloy.

**3-3. FOCUS**

Adjust the focus to optimize the screen.

**3-4. WHITE BALANCE****[ Screen G 2 Setting ]**

1. Input the dot signal from the pattern generator.
2. Set the picture brightness control to its lowest level.
3. Apply 175 V DC to the R,G, and B cathodes with an external power supply.
4. While watching the picture, adjust G 2 control RV 701 (Screen) to the point just before the return lines disappear.

**[ White balance adjustment ]**

1. Input an all-white signal from the pattern generator.
2. Set the picture brightness and color controls to their normal levels.
3. Use the RV 704 (B Drive) and RV 703 (G Drive) to adjust white balance.

In the adjustments below, have the picture color and brightness settings at their normal levels unless there is a specific instruction to the contrary.

## SECTION 4

### CIRCUIT ADJUSTMENTS

#### 4-1. ADJUSTMENTS WITH COMMANDER

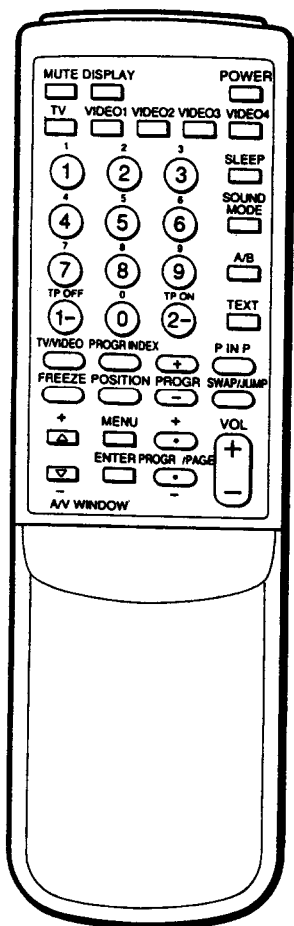
Service adjustments are made with the RM-821 that comes with this unit.

##### Entering service mode

With the unit on standby

↓  
"DISPLAY"  
↓  
"5"  
↓  
"VOL (+)"  
↓  
"POWER"

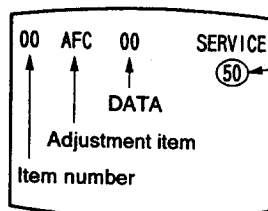
This operation sequence puts the unit into service mode.



"1", "4" Raise/lower the service item number  
"3", "6" Raise/lower the data  
"MUTE" Writes  
"0" Executes the writing

"7", "0" The data all becomes the values in memory  
"8", "0" User control all goes to the standard state  
"9" H-FRE automatic adjustment  
"5", "0" Service data initialization (Besure not to use usually.)  
"2", "0" Write 50 Hz adjustment data to 60 Hz, or in opposition.

The screen display is:



Depens on the signals.

PAL, SECAM : 50  
NTSC : 60

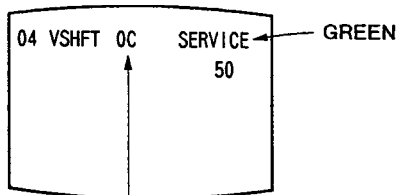
"1", "4" Select the adjustment item.  
↓  
"3", "6" Raise/lower the data.  
↓  
"MUTE" Writes.  
↓  
"0" Executes the writing.

## 4-2. ADJUSTMENT METHOD

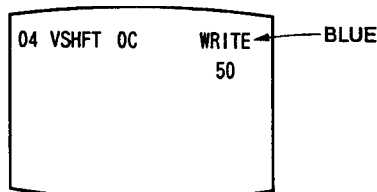
Item Number 04

This explanation uses VSHFT as an example.

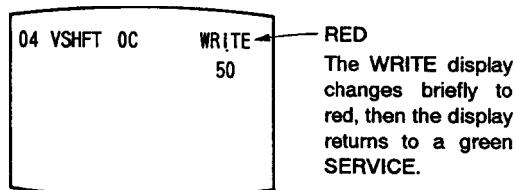
1. Select 04 VSHFT with the "1" and "4" buttons.
2. Raise/lower the data with the "3" and "6" buttons.
3. Select the optimum state. (The standard is for OF PAL reception.)
4. Write with the MUTE button. (The display changes to blue WRITE.)
5. Execute the writing with the "0" button. (The WRITE display changes briefly to red.)



Adjusted with "3" and "6" buttons



Written with "MUTE"



Write executed with "0"

Use the same method for Items Number 00 – 50. Use "1" and "4" to select the adjustment item, use "3" and "6" to adjust, write with "MUTE", then execute the write with "0".

**Note:** In "WRITE", the data of all items are wrote together to memory.

- H-FRE can be adjusted automatically. Feed a standard signal and input "9", the automatic adjustment is executed.
- As for VFREQ, by searching the bolded screen V range with adjusting data.

**Note:** In item 02 50 Hz, or item 03 60 Hz, it operates normally in spite of the 50 Hz or the 60 Hz of the input signal. Therefore be suure to adjust data according to the input signal.

Label	Display	Data range	Standard *1		50/60 *2	Remarks
			50 Hz	60 Hz		
00	AFC	00 ~ 03	00	00	○	AFC SWITCH (03 : Free run) (CXA1464)
01	H-FRE	00 ~ 7F	45	40	○	H FREQUENCY (CXA1464)
02	VFR50	00 ~ 1F	0F	×	×	V FREQUENCY 50 (CXA1464)
03	VFR60	00 ~ 1F	×	0F	×	V FREQUENCY 60 (CXA1464)
04	VSHFT	00 ~ 1F	0C	0C	○	V SHIFT (CXA1464)
05	VSIZE	00 ~ 3F	26	27	○	V SIZE (CXA1464)
06	V-LIN	00 ~ 0F	07	07	○	V LINEARITY (CXA1464)
07	VSCOR	00 ~ 0F	07	07	○	V S correction (CXA1464)
08	H-PHA	00 ~ 0F	03	05	○	H CENTER (CXA1464)
09	HSIZE	00 ~ 1F	12	12	○	H SIZE (CXA1464)
10	PINAM	00 ~ 1F	12	12	○	PIN AMP (CXA1464)
11	CORPN	00 ~ 07	04	04	○	CORNER PIN (CXA1464)
12	PIN-P	00 ~ 0F	09	08	○	PIN PHASE (CXA1464)
13	Y-BOW	00 ~ 3F	24	24	○	Y BOW (CXA1315-7)
14	V-ANG	00 ~ 3F	23	23	○	V ANGLE (CXA1315-7)
15	H-TRP	00 ~ 3F	1F	1F	○	H TRPZ (CXA1315-7)
16	VCOMP	00 ~ 07	03	03	○	V zooming correction (CXA1464)
17	VSM50	00 ~ 01	00	×	×	V lock range switch 50 (CXA1464)
18	VSM60	00 ~ 01	×	00	×	V lock range switch 60 (CXA1464)
19	DSHFT	00 ~ 3F	0C	0C	○	DC SHIFT (CXA1526)
20	UYBOW	00 ~ 3F	25	25	○	U.Y. BOW (CXA1526)
21	LYBOW	00 ~ 3F	25	25	○	L.Y. BOW (CXA1526)
22	H.AMP	00 ~ 3F	1F	1F	○	H.AMP (CXA1526)
23	HTILT	00 ~ 3F	1F	1F	○	H.TILT (CXA1526)
24	UCBOW	00 ~ 3F	1F	1F	○	U.C. BOW (CXA1526)
25	UTILT	00 ~ 3F	1F	1F	○	U.TILT (CXA1526)
26	LCBOW	00 ~ 3F	1F	1F	○	L.C. BOW (CXA1526)
27	LTILT	00 ~ 3F	1F	1F	○	L.TILT (CXA1526)
28	SBPIC	00 ~ 1F		0D	×	SUB PICTURE $\mu$ C main unit
29	SBHUE	00 ~ 1F		0D	×	SUB HUE $\mu$ C main unit
30	SBCOL	00 ~ 1F		0D	×	SUB COLOR $\mu$ C main unit
31	SBBRT	00 ~ 1F		0D	×	SUB BRIGHTNESS $\mu$ C main unit
32	SBSHP	00 ~ 1F		※	×	SUB SHARPNESS $\mu$ C main unit
33	SBBAL	00 ~ 1F		0D	×	SUB BALANCE $\mu$ C main unit
34	VM	00 ~ 01		0	×	VM function ON/OFF
35	M-DSP	00 ~ 3F		35	×	Main screen display position horizontal direction
36	S-DSP	00 ~ 3F		0E	×	PinP screen display position horizontal direction
37	PIP-H	00 ~ 3F	20	20	○	PinP H position correction (SDA9089)
38	PIP-V	00 ~ 0F	08	08	○	PinP V position correction (SDA9089)
39	PIP-L	00 ~ 0F		※	×	PinP out level (SDA9089)
40	PIP-C	00 ~ 07		04	×	PinP frame color (SDA9089)
41	PIP-D	00 ~ 07	00	00	○	PinP delay (SDA9089)
42	PIPVs	00 ~ 07	04	04	○	PinP V correction (SDA9089)
43	PIPHs	00 ~ 0F	07	04	○	PinP H correction (SDA9089)
44	TXPIC	00 ~ 0F		05	×	Text picture
45	BLUE	00 ~ 01		1	×	No-signal blue back YES/NO
46	OSDOE	00 ~ 01		0	×	CRT screen display odd/even inversion setting
47	OSD-V	00 ~ 1F		0F	×	V CRT screen display start position
48	DEGAU	00 ~ 01		※	×	Degauss function ON/OFF
49	ONDLY	00 ~ FF		80	×	Power on delay time
50	MUTE	00 ~ 01		01	×	No-signal sound mute YES/NO

\*1 50 : PAL input signal standard

60 : NTSC input signal standard

\*2 Items marked ○ are different for 50 and 60; those marked × are common to 50 and 60.

- Notes:**
- 08 H-PHA is adjusted with data 00 ~ 07.
  - 34 VM does not function.
  - 46 OSDOE is set to 0.
  - 48 DEGAU is set to 1.
  - 49 ONDLY is set to 80.
  - 39 PIP-L is set to 01 for M37204M8-A10SP (M M't IC 005)  
08 for M37204M8-xxx
  - 50 MUTE can not be selected for M37204M8-A10SP
  - 32 SBSHP is set to 03 for M37204M8-A10SP  
0D for M37204M8-xxx

### 4-3. PICTURE QUALITY ADJUSTMENTS

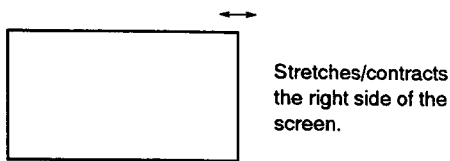
Item Numbers 28 – 33

SBPIC	When it is out of order in the user 50% condition, be sure to adjust.
SBHUE	
SBCOL	
SBBRT	
SBSHP	Set to the standard values.
SBBAL	

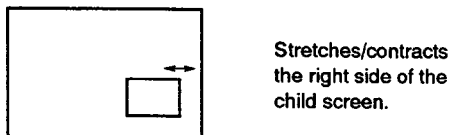
### 4-4. DISPLAY POSITION ADJUSTMENT

Item Numbers 35 – 43

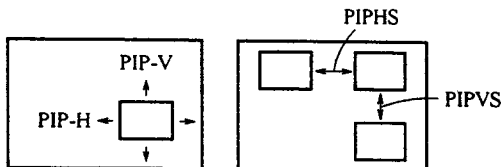
35 M-DSP Main screen display position, horizontal



36 S-DSP PinP screen display position



- 37 PIP-H Pin-P horizontal position correction
- 38 PIP-V Pin-P vertical position correction
- 42 PIPVS Pin-P vertical correction
- 43 PIPHS Pin-P horizontal correction



- When pressing PIP "POSITION" key in the service mode, "POSITION" turns round and round automatically.

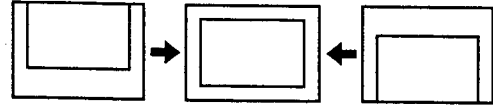
Item Numbers 39 – 41 and 47 are set to the standard values.

- 44 TXPIC Text picture  
Corrects the brightness for when teletext is received.  
Standard value is 05.

### 4-5. PICTURE DISTORTION ADJUSTMENT

Item Numbers 04 – 18

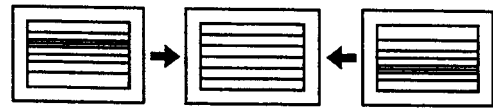
04 VSHFT (V SHIFT)



05 VSIZE (V SIZE)



06 V-LIN (V LINEARITY)



07 VSCOR (VERTICAL S correction)



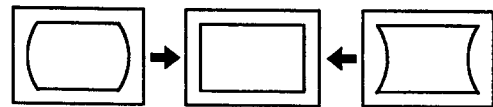
08 H-PHA (H CENTER)



09 HSIZE (H SIZE)



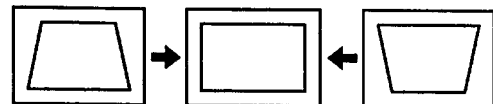
10 PINAM (PIN AMP)



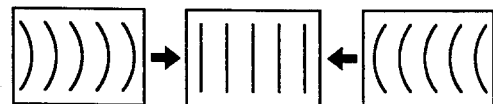
11 CORPN (CORNER PIN)



12 PIN-P (PIN PHASE)



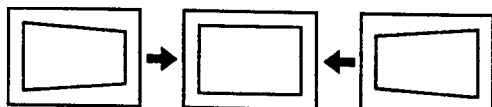
13 Y-BOW (Y BOW)



14 V-ANG (V ANGLE)



15 H-TRP (H TRPZ)



16 VCOMP (Vertical zooming correction)

The vertical size correction data for when the screen is bright and the screen is dark is set to the standard value of 03.

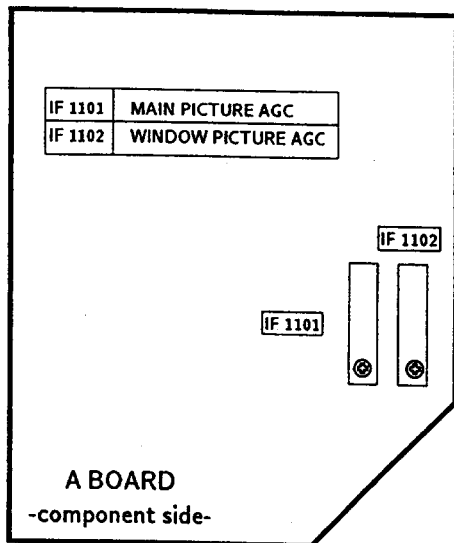
17 VSM50 (Vertical lock range switch 50)

The data is set to the standard value of 00.

18 VSM60 (Vertical lock range switch 60)

The data is set to the standard value of 00.

#### 4-6. A BOARD ADJUSTMENTS



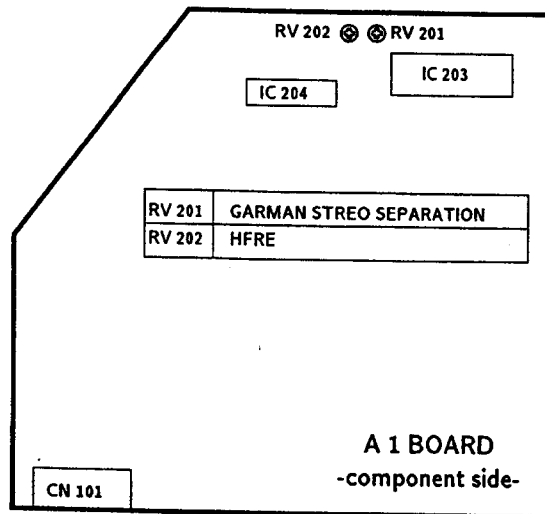
##### Main screen AGC adjustment (IF1101)

1. Receive an off-air signal.
2. Adjust the IF1101 RF AGC VR so that there is no snow noise or cross-modulation.
3. Switch the channel and verify the adjustment.

##### PinP screen AGC adjustment (IF1102)

1. Receive an off-air signal.
2. Adjust the IF1102 RF AGC VR so that there is no snow noise or cross-modulation.
3. Switch the channel and verify the adjustment.

#### 4-7. A1 BOARD ADJUSTMENTS



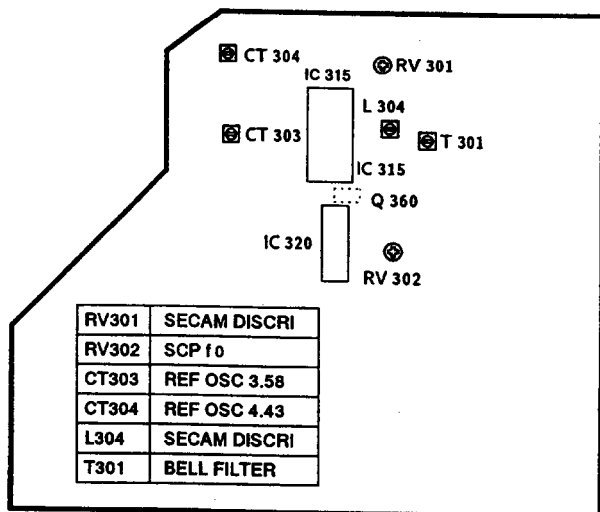
##### German stereo separation adjustment (RV201)

1. Input a 400 Hz signal to the left and a 1 kHz signal to the right.
2. Connect an oscilloscope to Pins ⑧ and ⑨ of CN101.
3. Adjust RV201 so that a 400Hz sine wave is output from Pin ⑧ and a 1 kHz sin wave is output from Pin ⑨.

##### Horizontal frequency adjustment (RV202)

1. Connect Pin ⑫ of IC204 to ground.
2. Receive a PAL color bar signal.
3. Connect a frequency counter to Pin ⑬ of IC203.
4. Adjust RV202 for a frequency of  $15625 \pm 50$  Hz.
5. Remove the ground from Pin ⑫ of IC204.

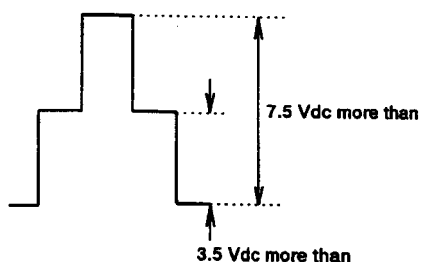
#### 4-8. B BOARD ADJUSTMENTS



**B BOARD (MAIN PICTURE)**  
-component side-

##### SCP f0 adjustment (RV302)

1. Connect Pin ⑫ of IC320 to ground.
2. Connect a frequency counter to Pin ④ of IC320.
3. Adjust RV302 for a frequency of 15.625 kHz.
4. Check that the SCP pulse is output at Pin ⑥ of IC320.



5. Remove the ground from Pin ⑫ of IC320.

##### Reference oscillation adjustment (CT304)

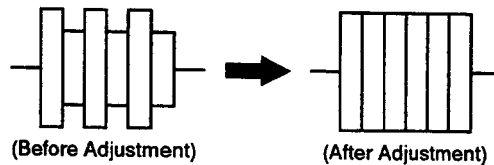
1. Connect Pin ⑮ of IC315 to ground.
2. Input a PAL color bar signal.
3. Adjust CT304 to the point where the screen moves the slowest.
4. Remove the ground from Pin ⑮ of IC315.

##### Reference oscillation adjustment (CT303)

1. Connect Pin ⑮ of IC315 to ground.
2. Input a 3.58 NTSC color bar signal.
3. Adjust CT303 to the point where the screen moves the slowest.
4. Remove the ground from Pin ⑮ of IC315.

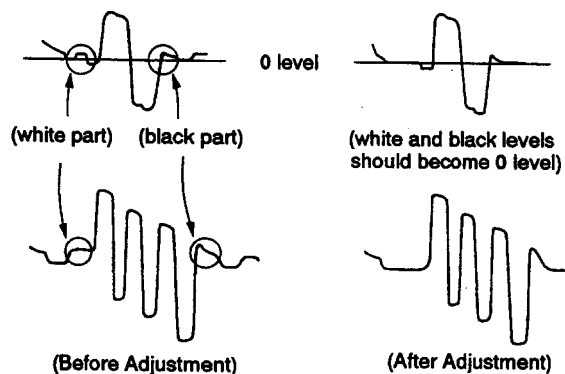
##### Bell filter adjustment (T301)

1. Input a SECAM color bar signal.
2. Connect an oscilloscope to the emitter of Q360.
3. Adjust T301 so that the waveform is flat.



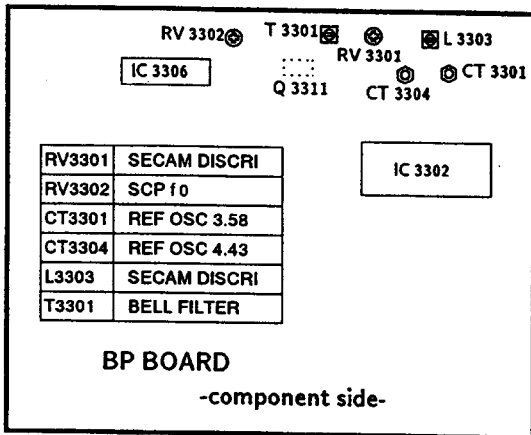
##### SECAM DISCRI adjustment (RV301, L304)

1. Input a SECAM color bar signal.
2. Connect an oscilloscope to Pin ① of IC315.
3. Adjust RV301 so that the sections corresponding to white and black are at 0 level.
4. Connect the oscilloscope to Pin ③ of IC315.
5. Adjust L304 so that the sections corresponding to white and black are at 0 level.
6. Carry out the 2 - 5 tracking.



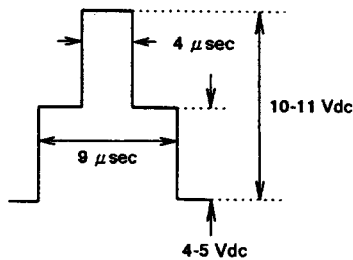


#### 4-9. BP BOARD ADJUSTMENTS (PinP screen)



##### SCP f<sub>0</sub> adjustment (RV3302)

1. Connect Pin ⑫ of IC3306 to ground.
2. Connect a frequency counter to Pin ④ of IC3306.
3. Adjust RV3302 for 15.625 kHz.
4. Check that the SCP pulse is output at Pin ⑥ of IC3306.



5. Remove the ground from Pin ⑫ of IC3306.

##### Reference oscillation adjustment (CT3304)

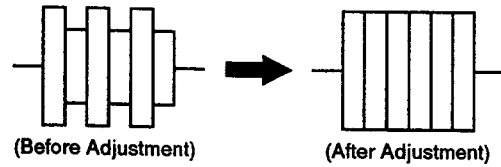
1. Connect Pin ⑰ of IC3302 to ground.
2. Input a PAL color bar signal to the PinP screen.
3. Adjust CT3304 to the point where the screen moves the slowest.
4. Remove the ground from Pin ⑰ of IC3302.

##### Reference oscillation adjustment (CT3301)

1. Connect Pin ⑰ of IC3302 to ground.
2. Input a 3.58 NTSC color bar signal.
3. Adjust CT3301 to the point where the screen moves the slowest.
4. Remove the ground from Pin ⑰ of IC3302.

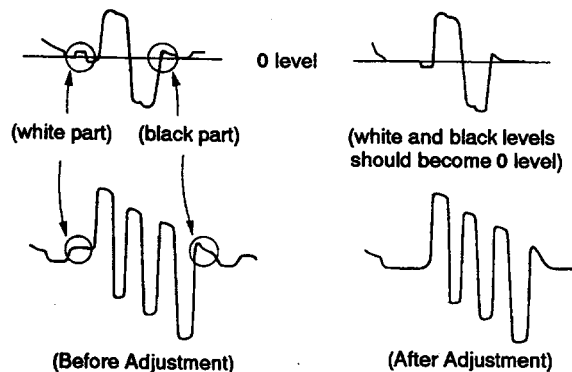
##### Bell filter adjustment (T3301)

1. Input a SECAM color bar signal.
2. Connect an oscilloscope to the emitter of Q3311.
3. Adjust T3301 so that the waveform is flat.

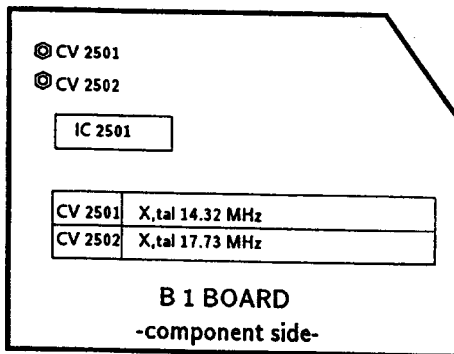


##### SECAM DISCRI adjustment (RV3301, L3303)

1. Input a SECAM color bar signal.
2. Connect an oscilloscope to Pin ① of IC3302.
3. Adjust RV3301 so that the sections corresponding to white and black are at 0 level.
4. Connect the oscilloscope to Pin ③ of IC3302.
5. Adjust L3303 so that the sections corresponding to white and black are at 0 level.
6. Carry out the 2 - 5 tracking.



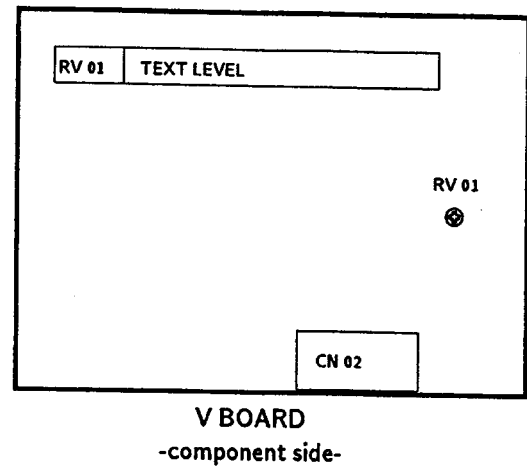
#### 4-10. B1 BOARD ADJUSTMENT



##### Crystal adjustment (CV2502)

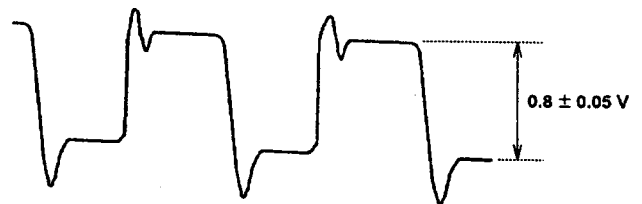
1. Put the unit into the no-signal state.
2. Select PAL with COLOR SYSTEM.
3. Connect a frequency counter to Pin ⑩ of IC2501.
4. Adjust CV2502 for a frequency of 17.73447 MHz  $\pm$  100 Hz.
5. Select NTSC with COLOR SYSTEM.
6. Adjust CV2501 for a frequency of 14.31818 MHz  $\pm$  100 Hz.

#### 4-11. V BOARD ADJUSTMENT



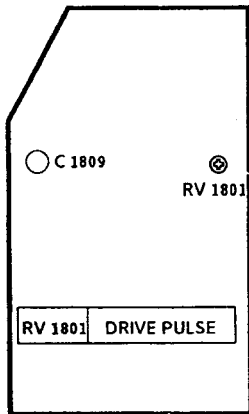
##### Text level adjustment (RV01)

1. Receive a teletext signal.
2. Connect an oscilloscope to Pin ④ of CN02.
3. Adjust RV01 for a voltage of 0.5  $\pm$  0.05 V.



**Note:** The item 44 TXPIC should be set to 05 value in the service mode.

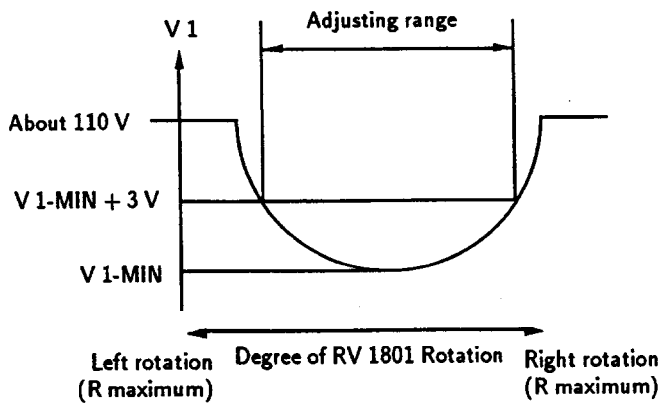
#### 4-12. VC BOARD ADJUSTMENT



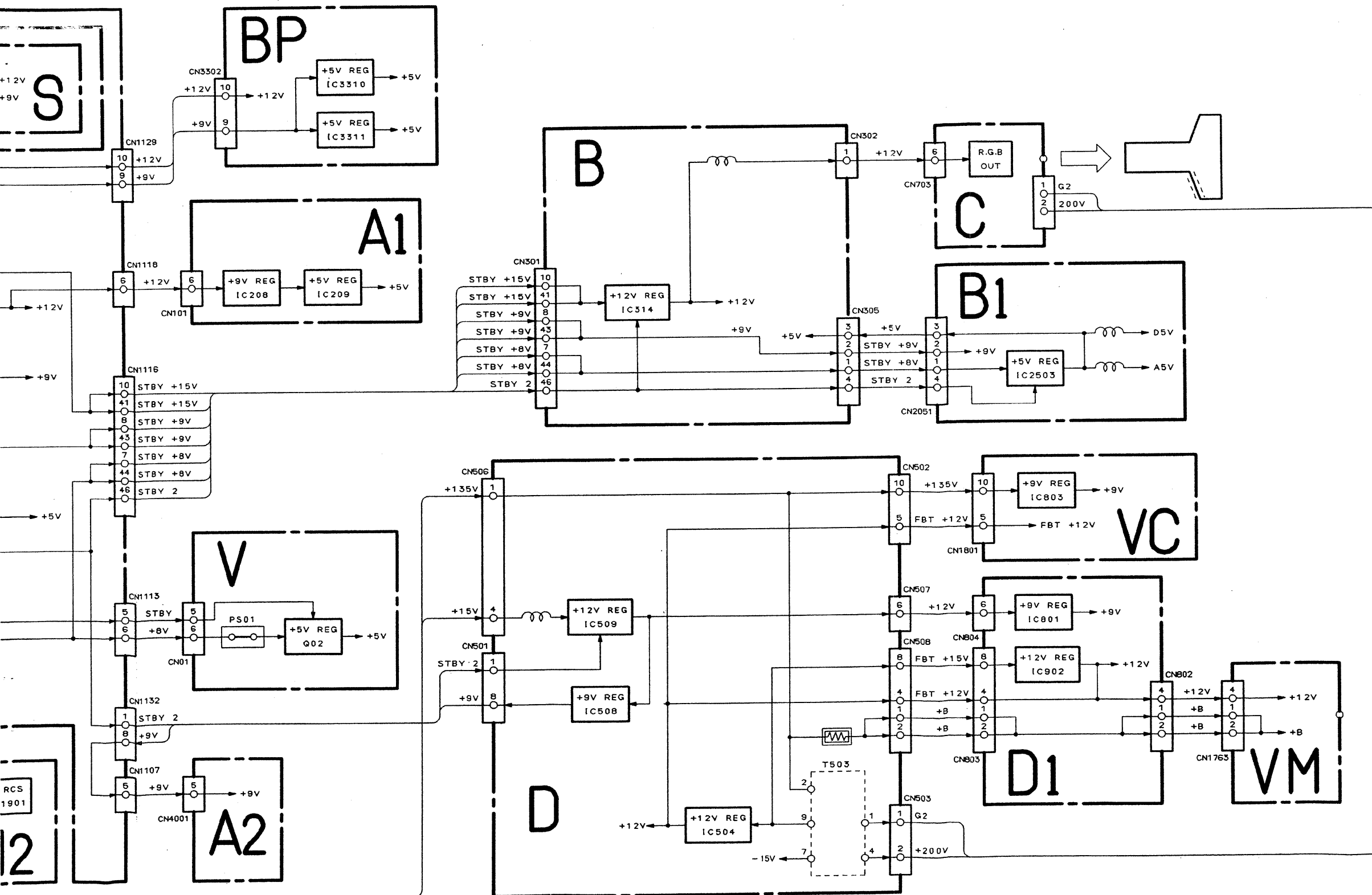
VC BOARD  
-component side-

##### Drive pulse adjustment (RV1801)

1. Connect a DC voltmeter across C1809.
2. Adjust RV1801 for the minimum voltage  $V_1$  across C1809. The adjustment range is  $V_1 \text{ min } +3 \text{ V}$ .

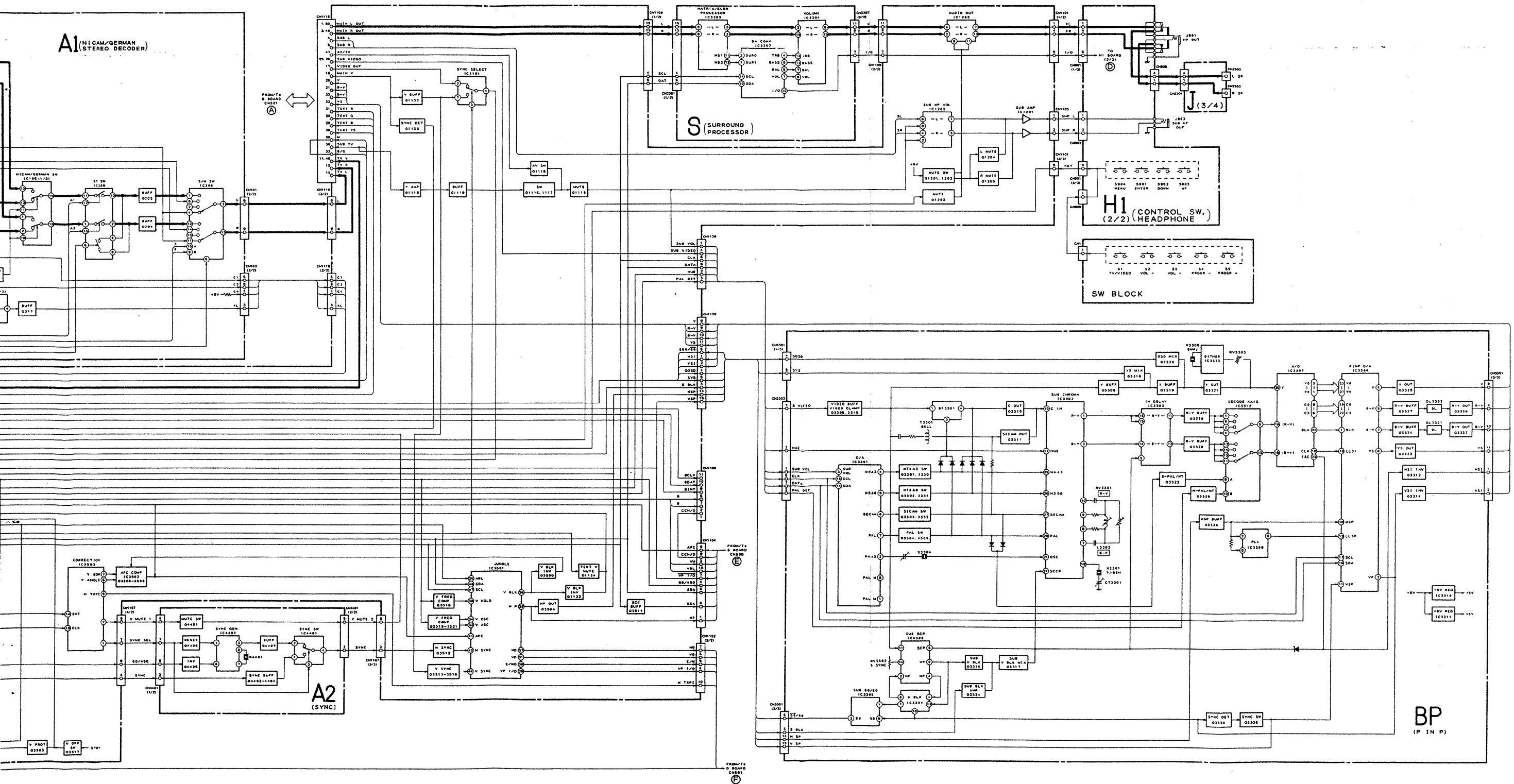


### 5-1. BLOCK DIAGRAM-1



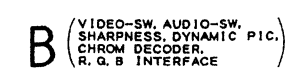
The schematic diagram is organized into three main functional blocks, each enclosed in a dashed-line border:

- M (MICRO-CONTROLLER):** This block contains a microcontroller (IC001) and various timing and control logic components, including capacitors (C001, C002, C003, C004, C005, C006, C007, C008, C009, C010, C011, C012, C013, C014, C015, C016, C017, C018, C019, C020, C021, C022, C023, C024, C025, C026, C027, C028, C029, C030, C031, C032, C033, C034, C035, C036, C037, C038, C039, C040, C041, C042, C043, C044, C045, C046, C047, C048, C049, C050, C051, C052, C053, C054, C055, C056, C057, C058, C059, C060, C061, C062, C063, C064, C065, C066, C067, C068, C069, C070, C071, C072, C073, C074, C075, C076, C077, C078, C079, C080, C081, C082, C083, C084, C085, C086, C087, C088, C089, C090, C091, C092, C093, C094, C095, C096, C097, C098, C099, C100, C101, C102, C103, C104, C105, C106, C107, C108, C109, C110, C111, C112, C113, C114, C115, C116, C117, C118, C119, C120, C121, C122, C123, C124, C125, C126, C127, C128, C129, C130, C131, C132, C133, C134, C135, C136, C137, C138, C139, C140, C141, C142, C143, C144, C145, C146, C147, C148, C149, C150, C151, C152, C153, C154, C155, C156, C157, C158, C159, C160, C161, C162, C163, C164, C165, C166, C167, C168, C169, C170, C171, C172, C173, C174, C175, C176, C177, C178, C179, C180, C181, C182, C183, C184, C185, C186, C187, C188, C189, C190, C191, C192, C193, C194, C195, C196, C197, C198, C199, C200, C201, C202, C203, C204, C205, C206, C207, C208, C209, C210, C211, C212, C213, C214, C215, C216, C217, C218, C219, C220, C221, C222, C223, C224, C225, C226, C227, C228, C229, C230, C231, C232, C233, C234, C235, C236, C237, C238, C239, C240, C241, C242, C243, C244, C245, C246, C247, C248, C249, C250, C251, C252, C253, C254, C255, C256, C257, C258, C259, C260, C261, C262, C263, C264, C265, C266, C267, C268, C269, C270, C271, C272, C273, C274, C275, C276, C277, C278, C279, C280, C281, C282, C283, C284, C285, C286, C287, C288, C289, C290, C291, C292, C293, C294, C295, C296, C297, C298, C299, C300, C301, C302, C303, C304, C305, C306, C307, C308, C309, C310, C311, C312, C313, C314, C315, C316, C317, C318, C319, C320, C321, C322, C323, C324, C325, C326, C327, C328, C329, C330, C331, C332, C333, C334, C335, C336, C337, C338, C339, C340, C341, C342, C343, C344, C345, C346, C347, C348, C349, C350, C351, C352, C353, C354, C355, C356, C357, C358, C359, C360, C361, C362, C363, C364, C365, C366, C367, C368, C369, C370, C371, C372, C373, C374, C375, C376, C377, C378, C379, C380, C381, C382, C383, C384, C385, C386, C387, C388, C389, C390, C391, C392, C393, C394, C395, C396, C397, C398, C399, C400, C401, C402, C403, C404, C405, C406, C407, C408, C409, C410, C411, C412, C413, C414, C415, C416, C417, C418, C419, C420, C421, C422, C423, C424, C425, C426, C427, C428, C429, C430, C431, C432, C433, C434, C435, C436, C437, C438, C439, C440, C441, C442, C443, C444, C445, C446, C447, C448, C449, C450, C451, C452, C453, C454, C455, C456, C457, C458, C459, C460, C461, C462, C463, C464, C465, C466, C467, C468, C469, C470, C471, C472, C473, C474, C475, C476, C477, C478, C479, C480, C481, C482, C483, C484, C485, C486, C487, C488, C489, C490, C491, C492, C493, C494, C495, C496, C497, C498, C499, C500, C501, C502, C503, C504, C505, C506, C507, C508, C509, C510, C511, C512, C513, C514, C515, C516, C517, C518, C519, C520, C521, C522, C523, C524, C525, C526, C527, C528, C529, C530, C531, C532, C533, C534, C535, C536, C537, C538, C539, C540, C541, C542, C543, C544, C545, C546, C547, C548, C549, C550, C551, C552, C553, C554, C555, C556, C557, C558, C559, C560, C561, C562, C563, C564, C565, C566, C567, C568, C569, C570, C571, C572, C573, C574, C575, C576, C577, C578, C579, C580, C581, C582, C583, C584, C585, C586, C587, C588, C589, C590, C591, C592, C593, C594, C595, C596, C597, C598, C599, C600, C601, C602, C603, C604, C605, C606, C607, C608, C609, C610, C611, C612, C613, C614, C615, C616, C617, C618, C619, C620, C621, C622, C623, C624, C625, C626, C627, C628, C629, C630, C631, C632, C633, C634, C635, C636, C637, C638, C639, C640, C641, C642, C643, C644, C645, C646, C647, C648, C649, C650, C651, C652, C653, C654, C655, C656, C657, C658, C659, C660, C661, C662, C663, C664, C665, C666, C667, C668, C669, C670, C671, C672, C673, C674, C675, C676, C677, C678, C679, C680, C681, C682, C683, C684, C685, C686, C687, C688, C689, C690, C691, C692, C693, C694, C695, C696, C697, C698, C699, C700, C701, C702, C703, C704, C705, C706, C707, C708, C709, C710, C711, C712, C713, C714, C715, C716, C717, C718, C719, C720, C721, C722, C723, C724, C725, C726, C727, C728, C729, C730, C731, C732, C733, C734, C735, C736, C737, C738, C739, C740, C741, C742, C743, C744, C745, C746, C747, C748, C749, C750, C751, C752, C753, C754, C755, C756, C757, C758, C759, C760, C761, C762, C763, C764, C765, C766, C767, C768, C769, C770, C771, C772, C773, C774, C775, C776, C777, C

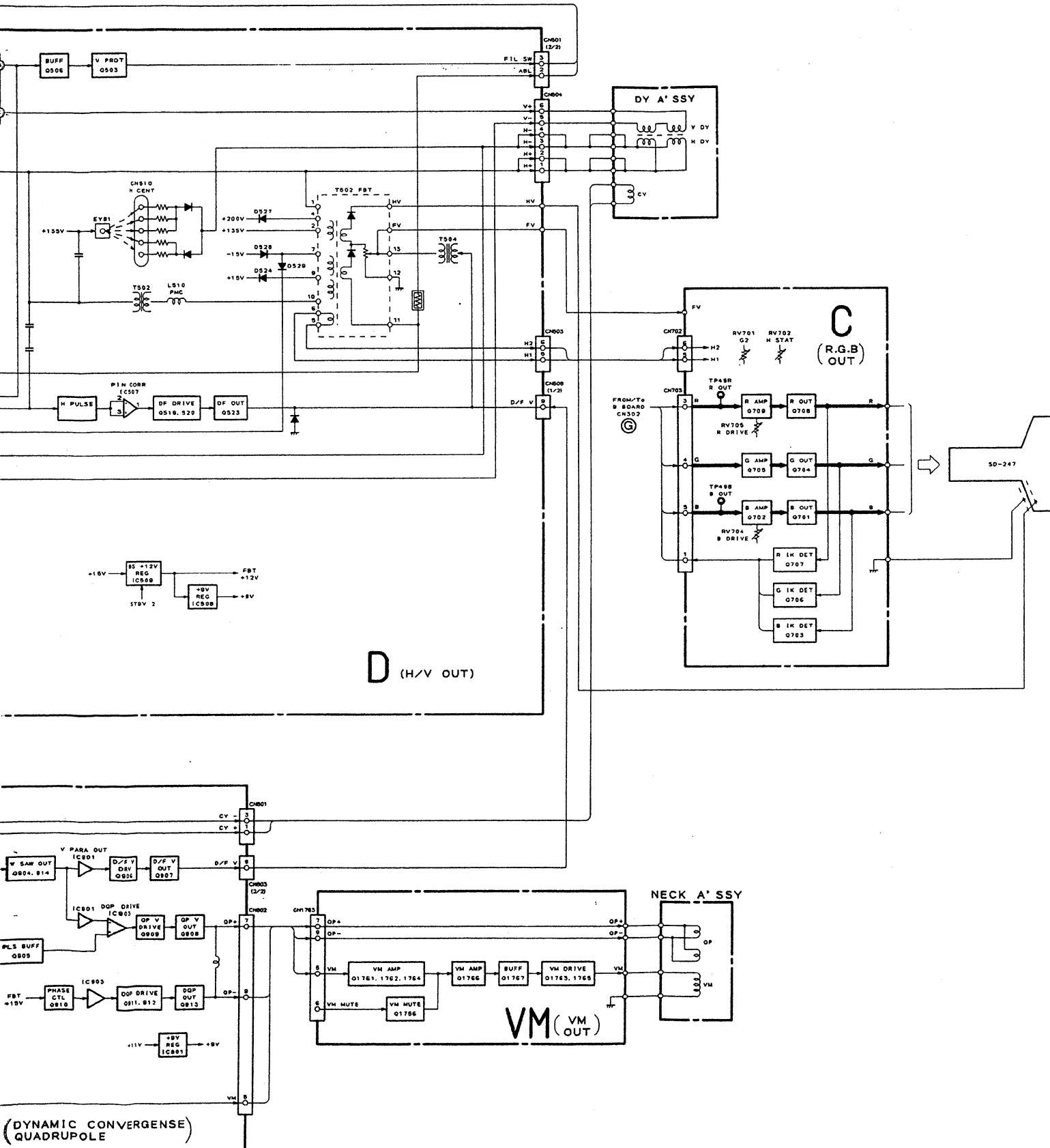




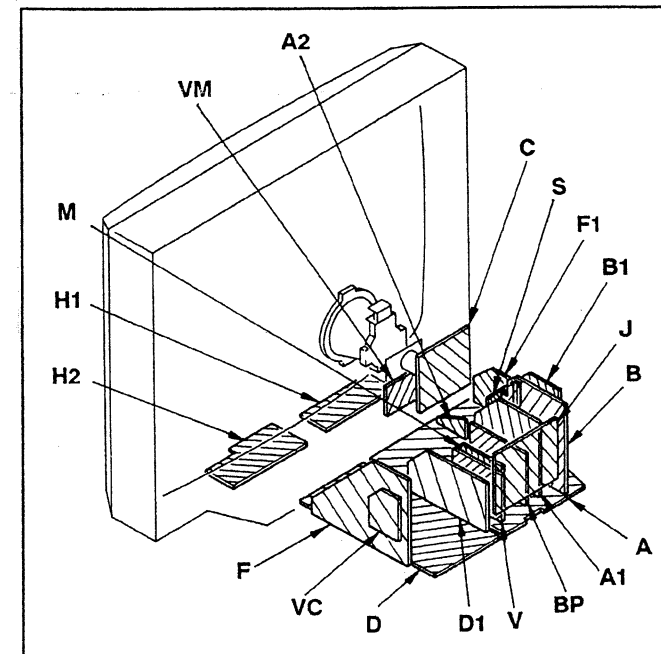


KV-S29JN1/S29MN1/S29SN1/S34JN1/S34MN1/S34SN1  
RM-821





## 5-2. CIRCUIT BOARDS LOCATION



5-3. SCHEMATIC DIAGRAMS AND PRINTED  
WIRING BOARDS

Note :

Note: The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

- All capacitors are in  $\mu$ F unless otherwise noted. p:  $\mu$ F, 50WV or less are not indicated except for electrolytic and tantalums.
- All resistors are in ohms.  
 $k\Omega = 1000\Omega$ ,  $M\Omega = 1000k\Omega$
- Indication of resistance, which does not have one for rating electrical power is as follows.

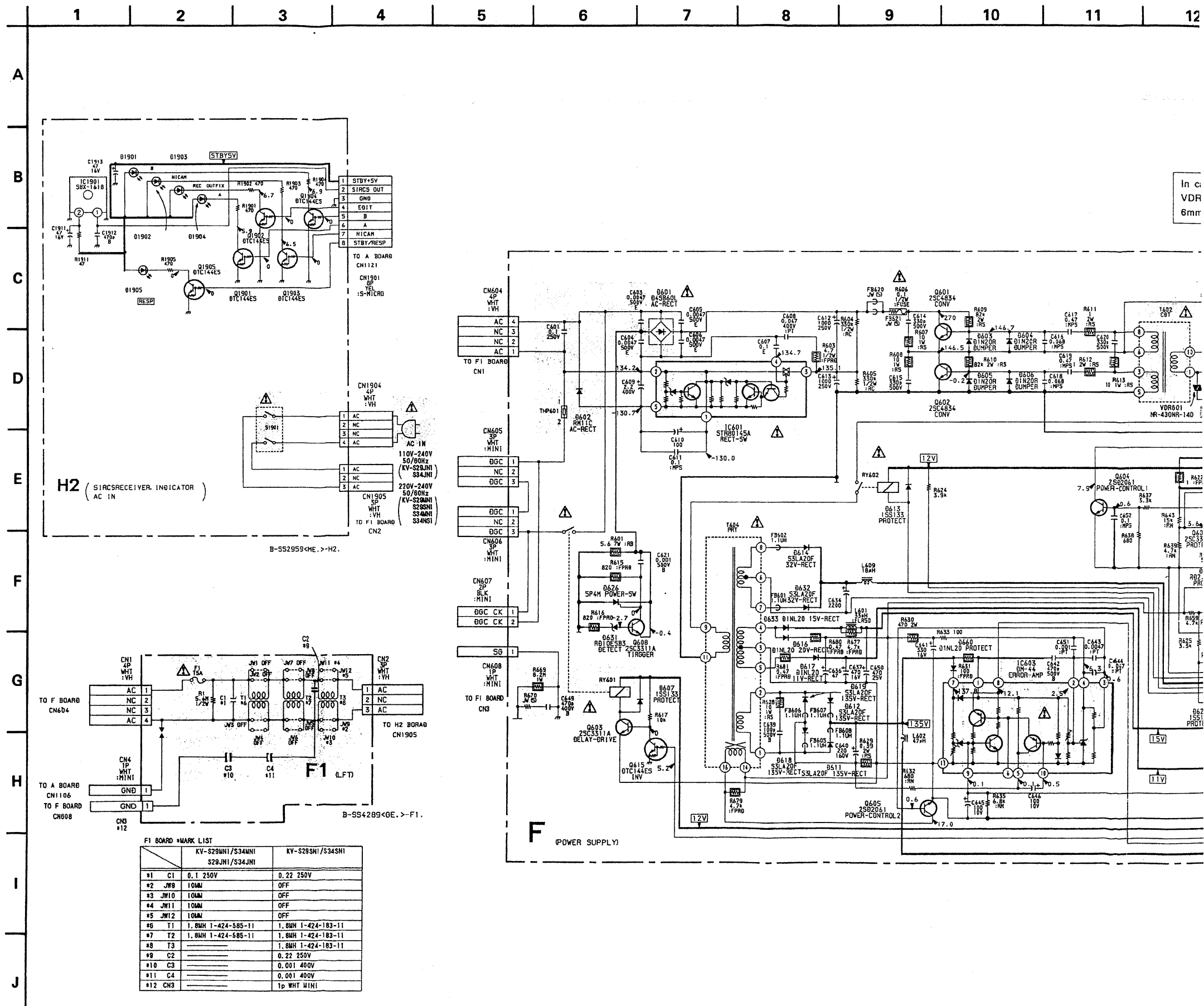
Pitch: 5mm  
Rating electrical power:  $\frac{1}{4}W$

- $\square$  : nonflammable resistor.
- $\Delta$  : internal component.
- $\square$  : panel designation or adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- Readings are taken with a color-bar signal input.  
no mark : PAL  
< > : SECAM  
( ) : NTSC 3.58  
{ } : NTSC 4.43
- Readings are taken with a 10M $\Omega$  digital multimeter.
- Voltages are dc with respect to ground unless otherwise noted.
- Voltage variations may be noted due to normal production tolerances.
- All voltages are in V.
- \* : Can not be measured.
- Circled numbers are waveform references.
- : B+ bus.
- - - : B- bus.
- : signal path.

## Reference information

RESISTOR	RN	METAL FILM
	RC	SOLID
	FPRD	NONFLAMMABLE CARBON
	FUSE	NONFLAMMABLE FUSIBLE
	RS	NONFLAMMABLE METAL OXIDE
	RB	NONFLAMMABLE CEMENT
	RW	NONFLAMMABLE WIREWOUND
	*	ADJUSTMENT RESISTOR
COIL	LF-8L	MICRO INDUCTOR
CAPACITOR	TA	TANTALUM
	PS	STYROL
	PP	POLYPROPYLENE
	PT	MYLAR
	MPS	METALIZED POLYESTER
	MPP	METALIZED POLYPROPYLENE
	ALB	BIPOLAR
	ALT	HIGH TEMPERATURE
	ALR	HIGH RIPPLE

## (1) SCHEMATIC DIAGRAMS OF F, F1 AND H2 BOARDS



**KV-S29JN1/S29MN1/S29SN1/S34JN1/S34MN1/S34SN1**  
RM-821

**KV-S29JN1/S29MN1/S29SN1/S34JN1/S34MN1/S34SN1**  
RM-821

**KV-S29JN1/S29MN1/S29SN1/S34JN1/S34MN1/S34SN1**  
RM-821

**F** [POWER SUPPLY]

**F<sub>1</sub>** [LFT, AC IN]

**H<sub>2</sub>** [ SIRCSRECEIVER  
INDICATOR

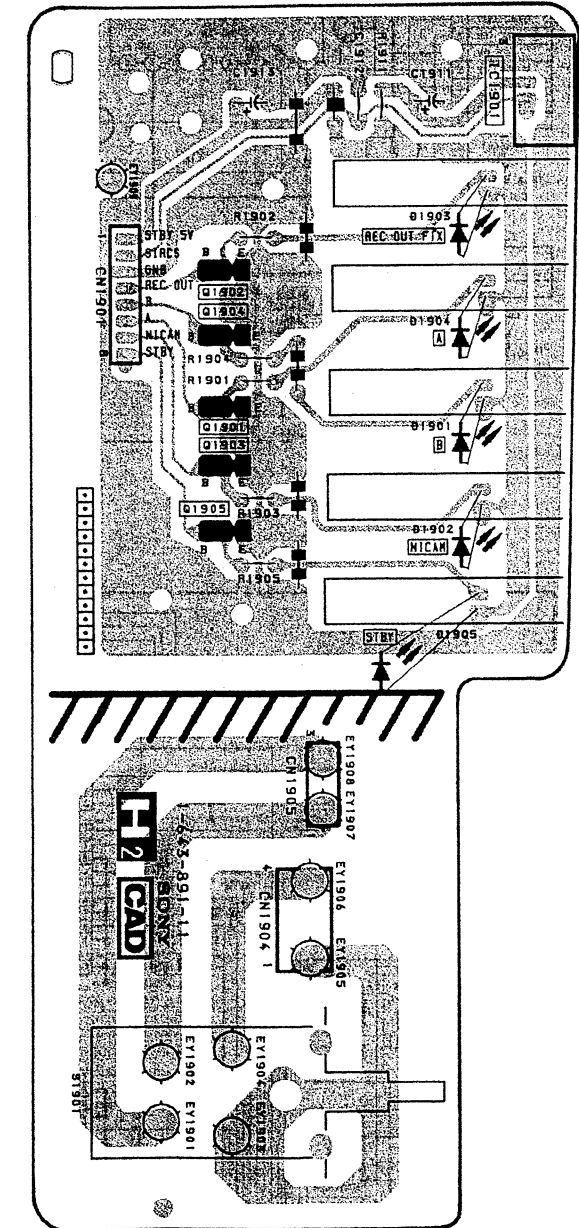
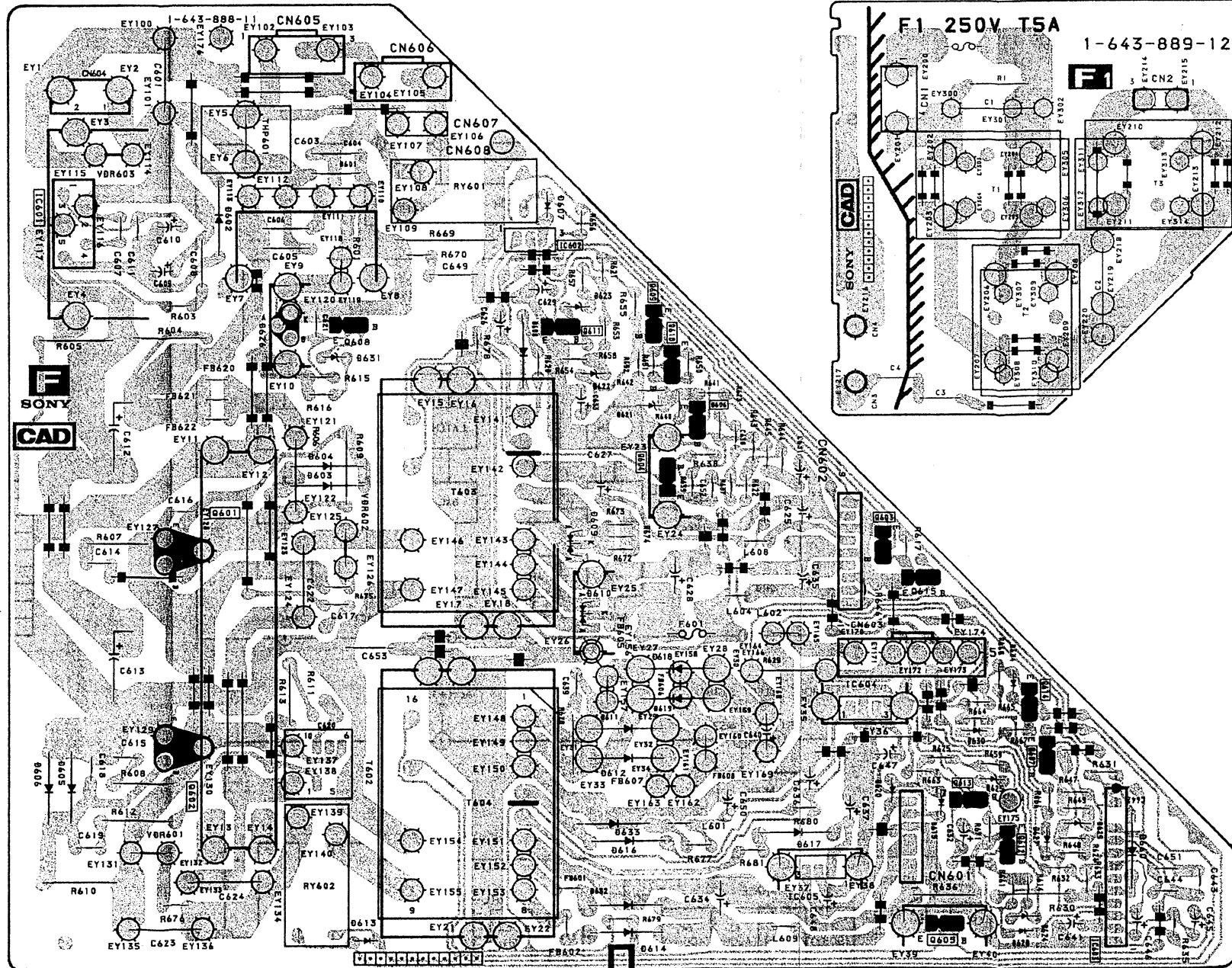
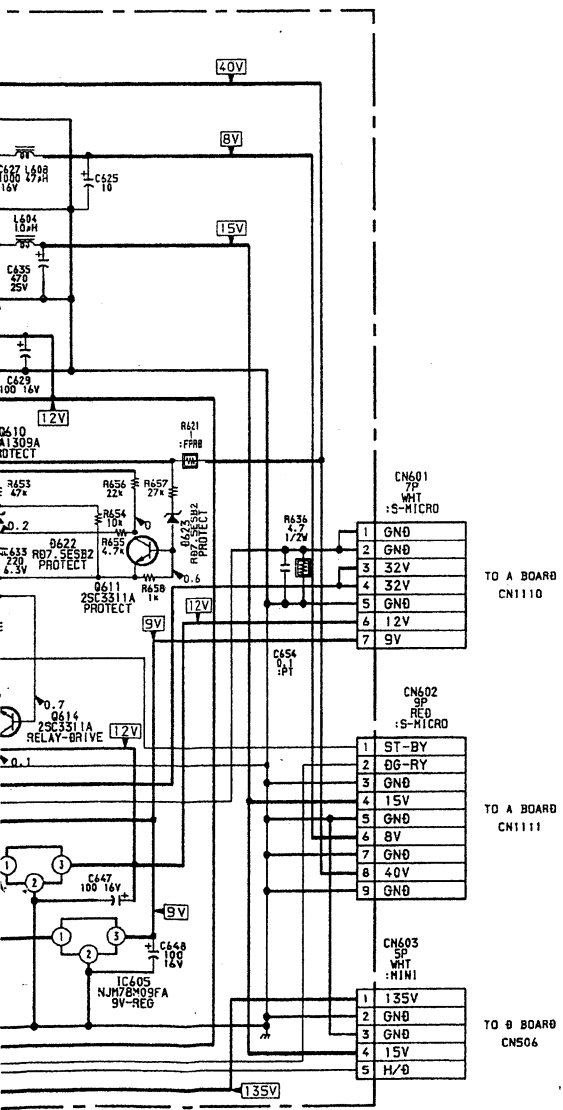
**15** | **16** | **17**

## PRINTED WIRING BOARDS

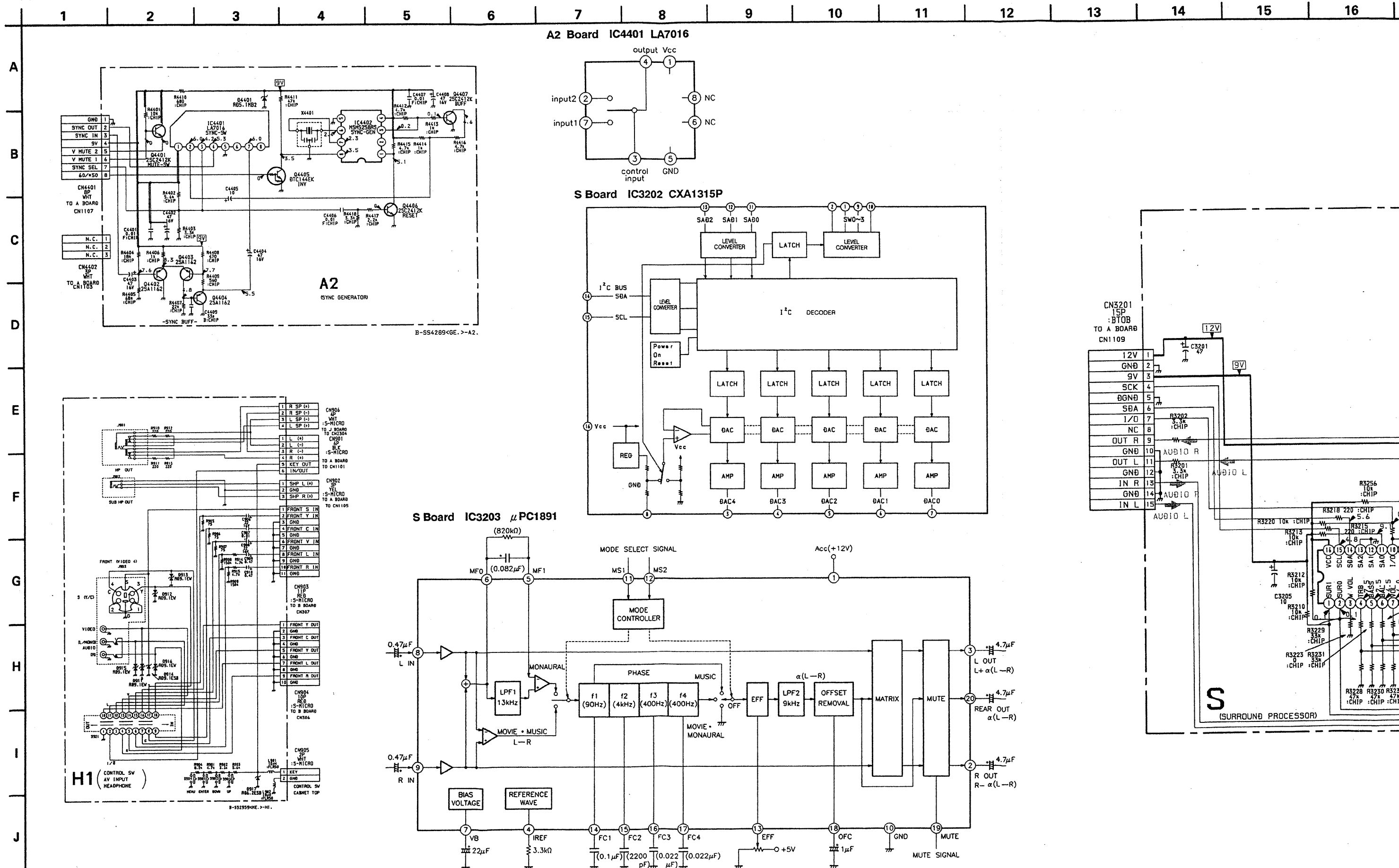
**- F Board -**

**- F1 Board -**

**- H2 Board -**



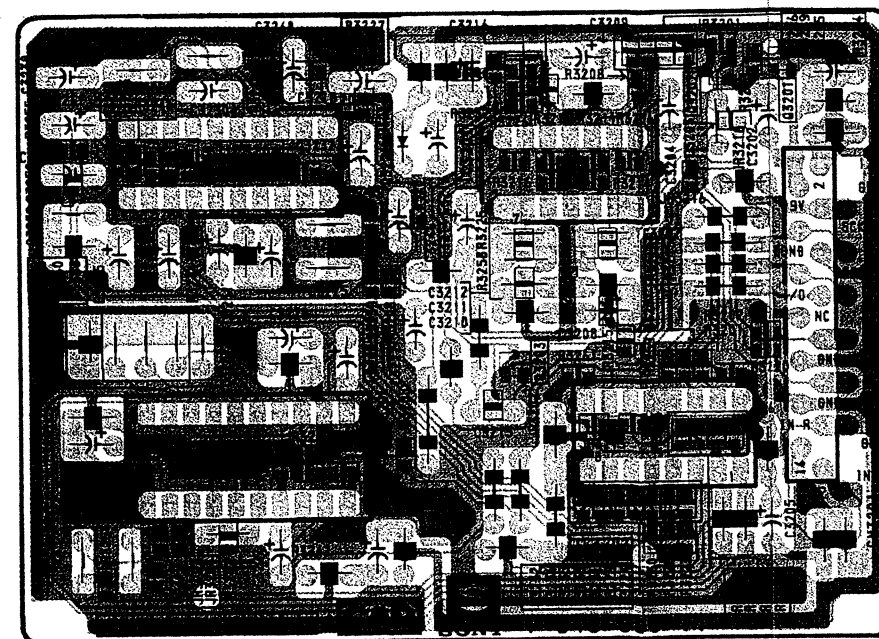
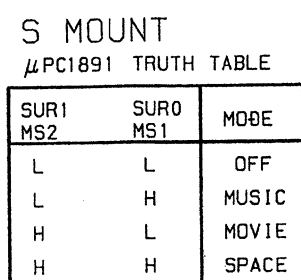
## (2) SCHEMATIC DIAGRAMS OF A2, H1 AND S BOARDS



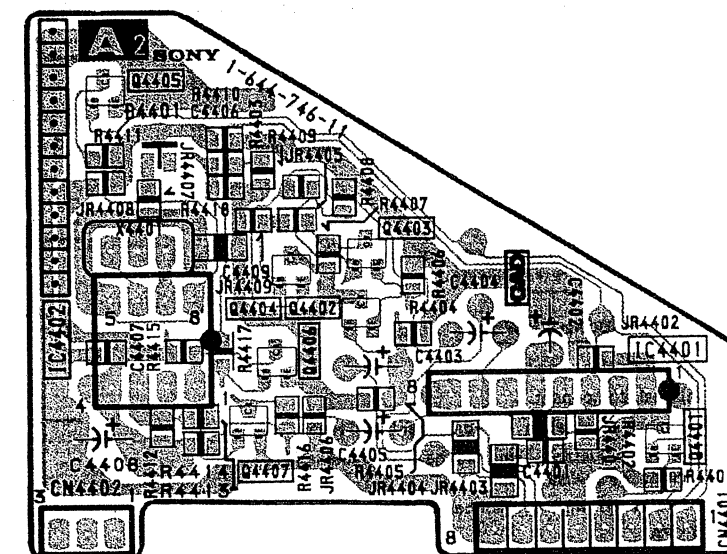
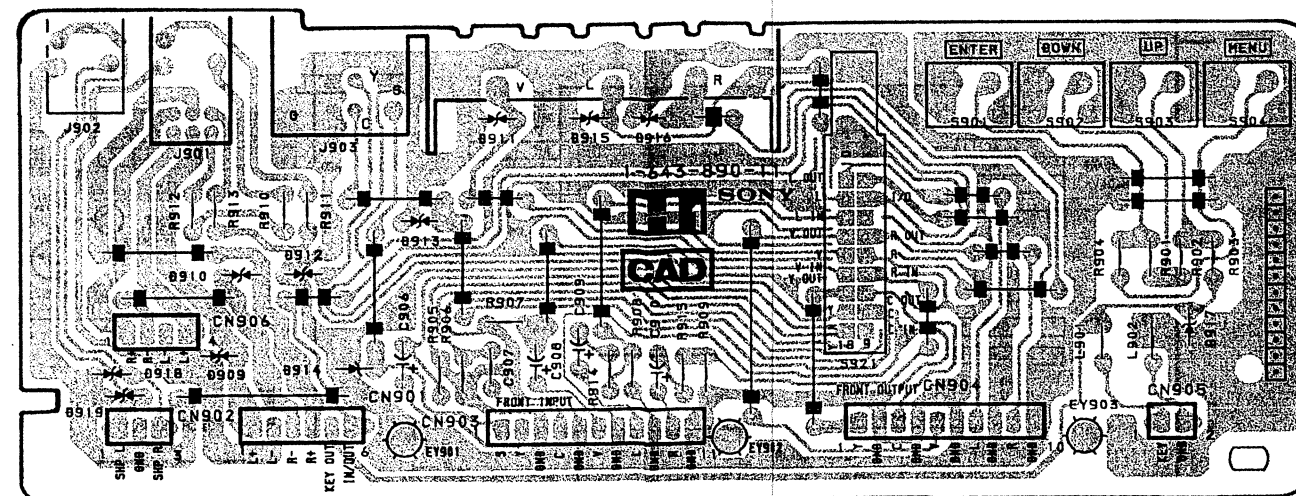


**– S Board –**

– A2 Board –



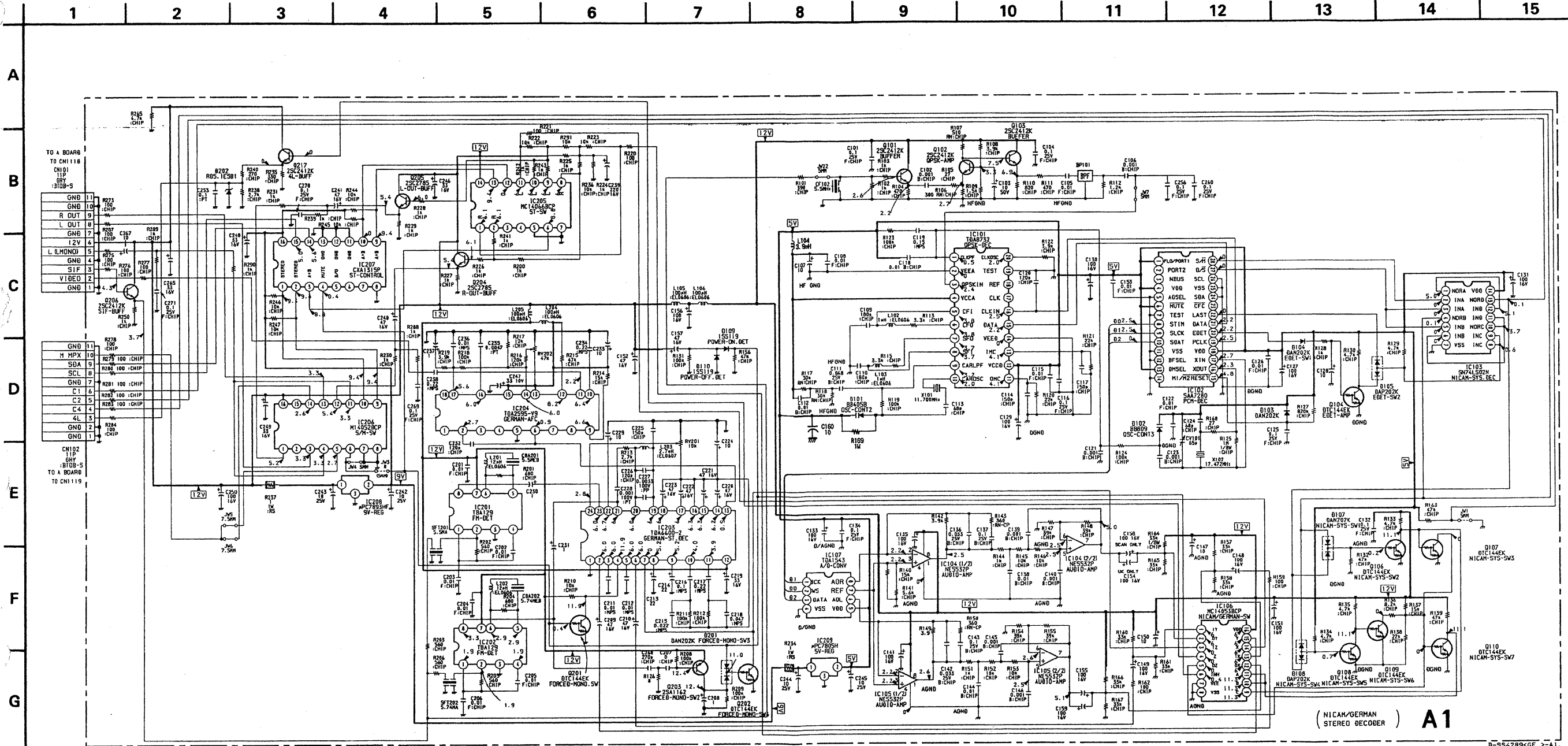
– H1 Board –



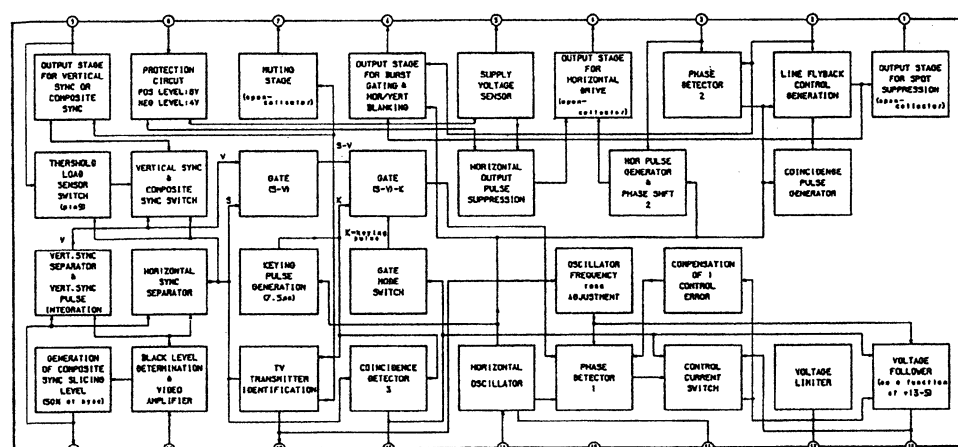
KV-S29JN1/S29MN1/S29SN1/S34JN1/S34MN1/S34SN1  
RM-821

KV-S29JN1/S29MN1/S29SN1/S34JN1/S34MN1/S34SN1  
RM-821

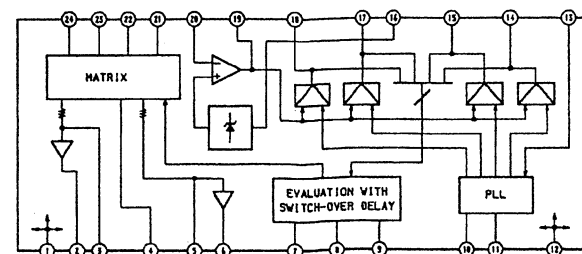
(3) SCHEMATIC DIAGRAM OF A1 BOARD



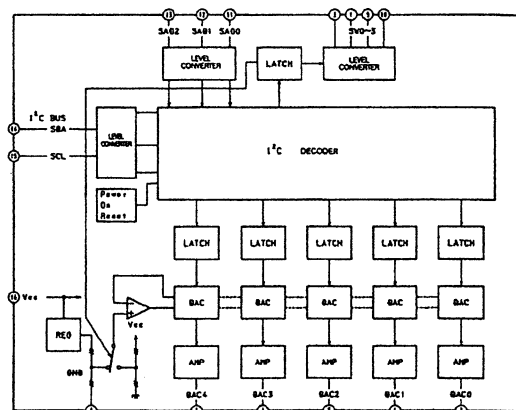
A1 Board IC204 TDA2595-V9



A1 Board IC203 TDA6600-2

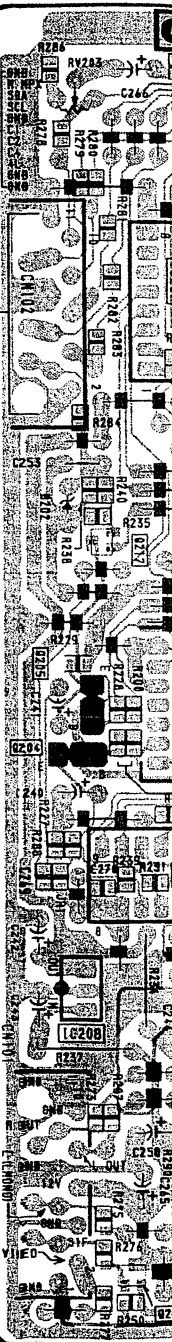


A1 Board IC207 CXA1315P



A1 NICAM/STEREO  
PRINTED WIRING

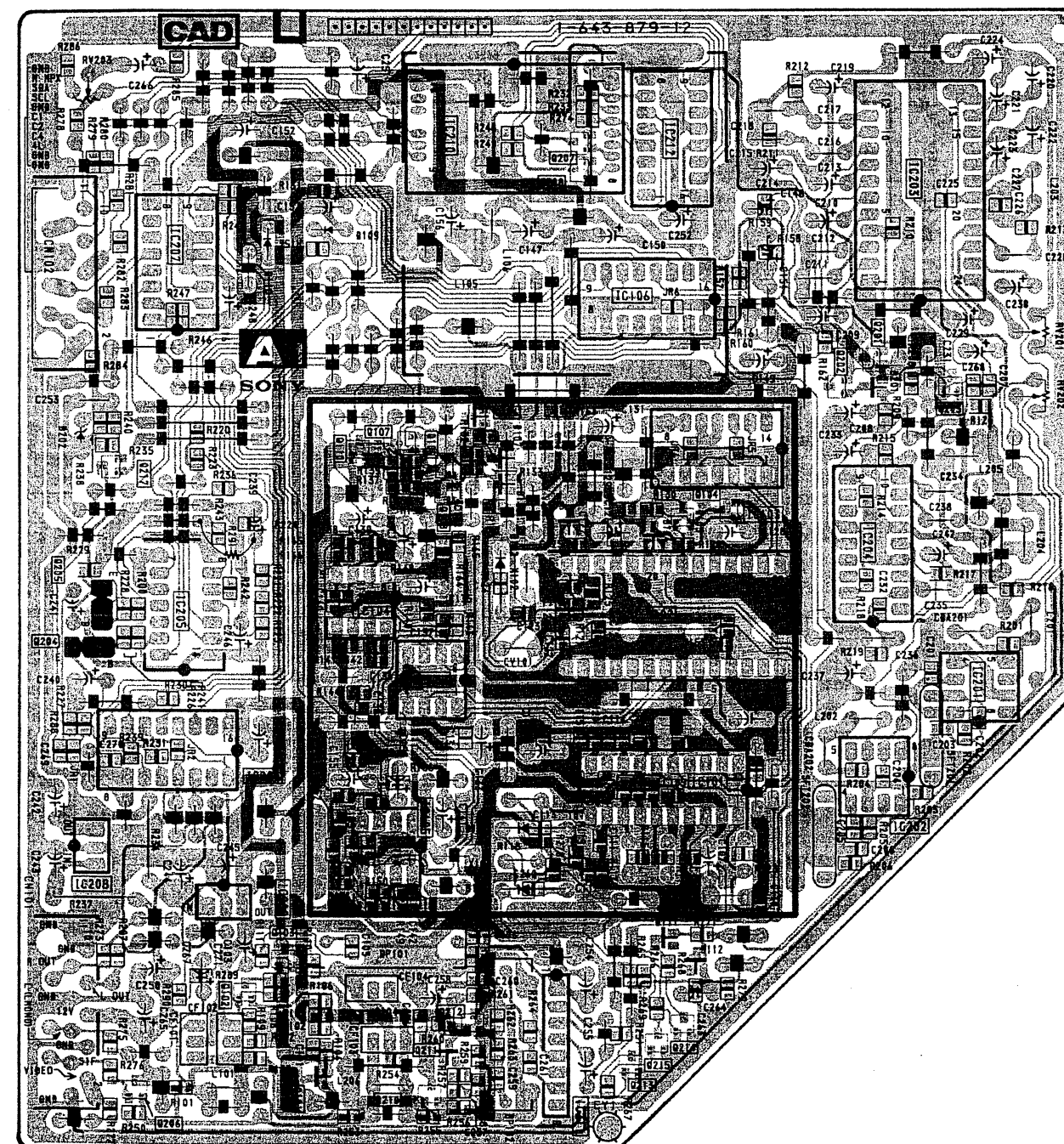
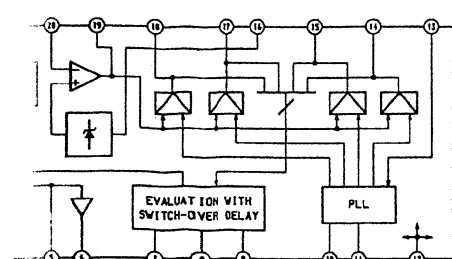
- A1 Board -





**A1** [ NICAM/GERMAN  
STEREO DECODER

— A1 Board —

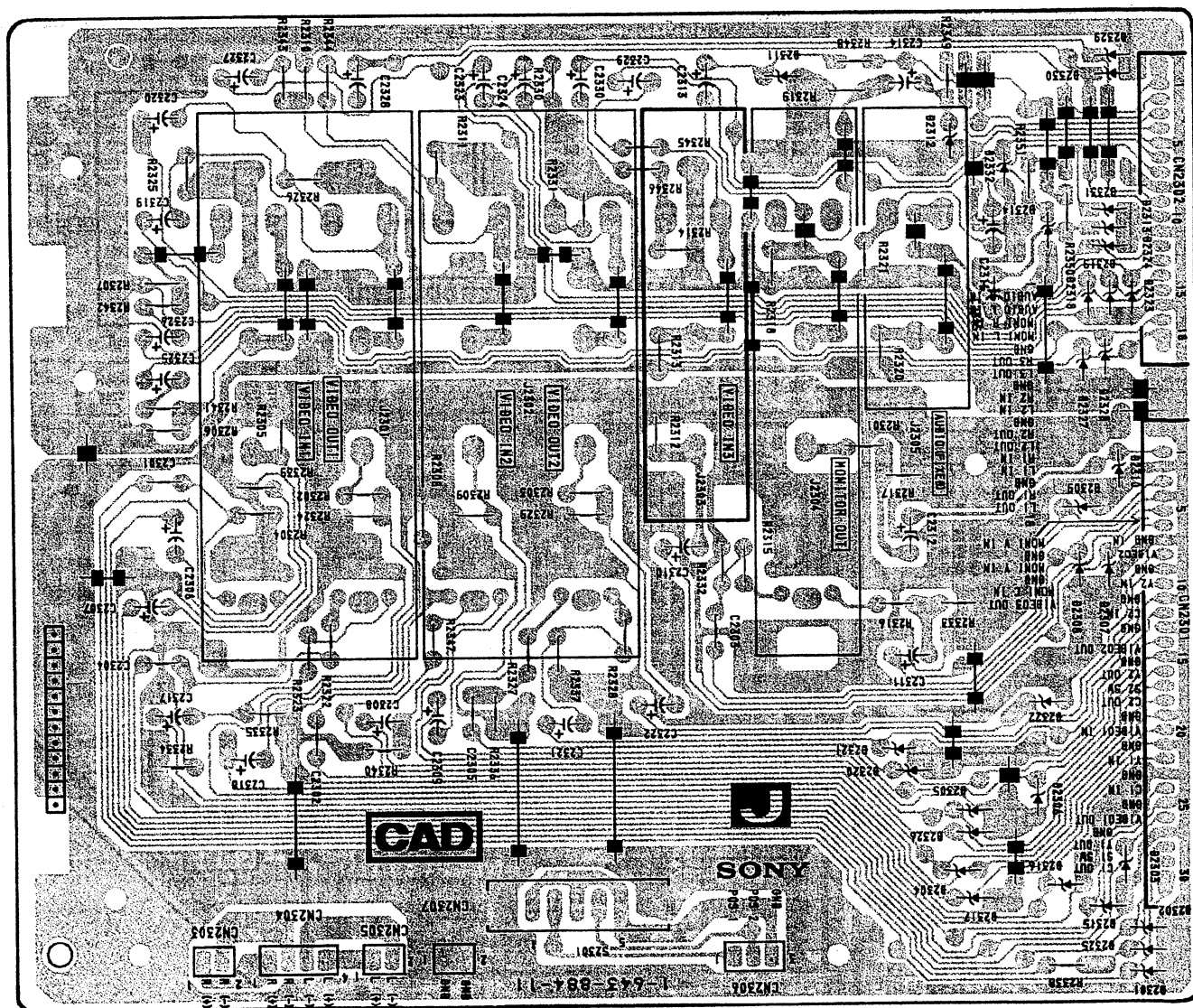


**J** [INPUT, OUTPUT]

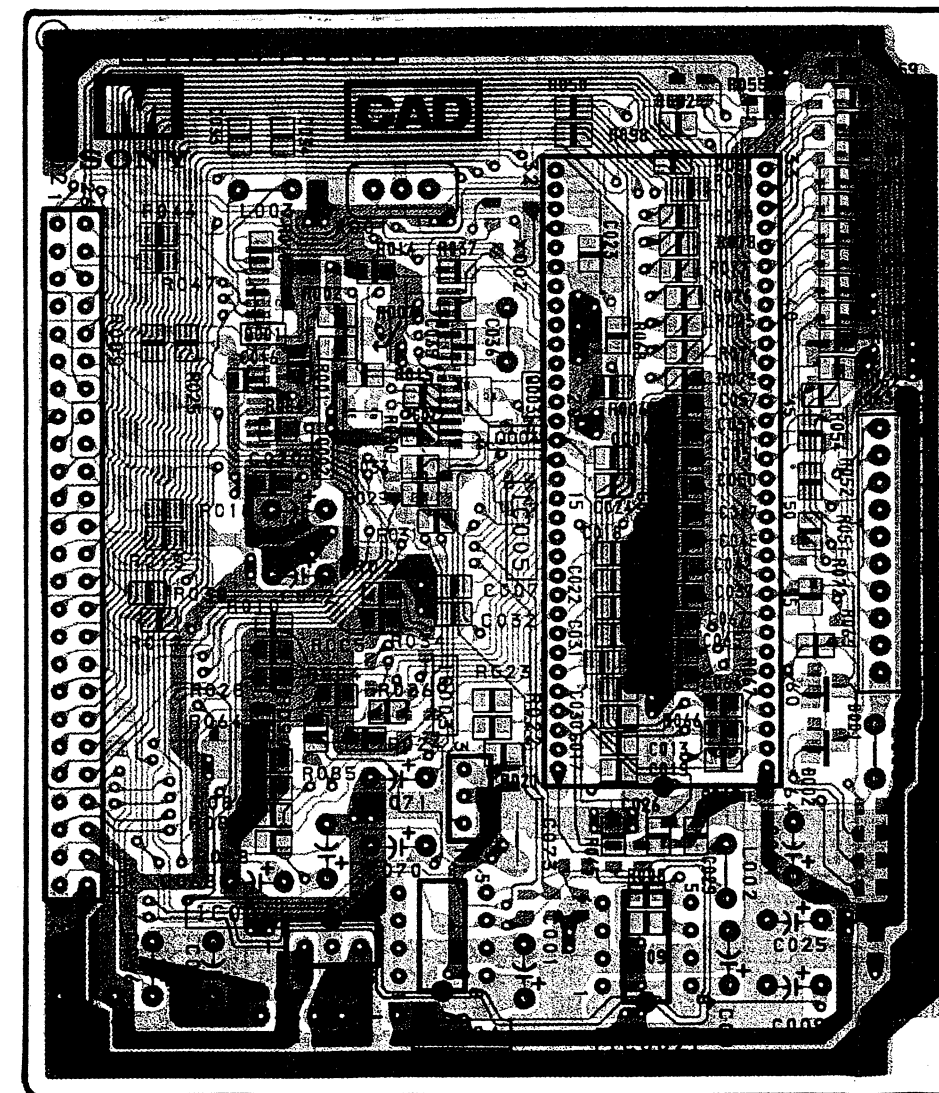
**M** [MICRO-CONTROLLER]

PRINTED WIRING BOARDS

— J Board —



— M Board (Conductor Side) —





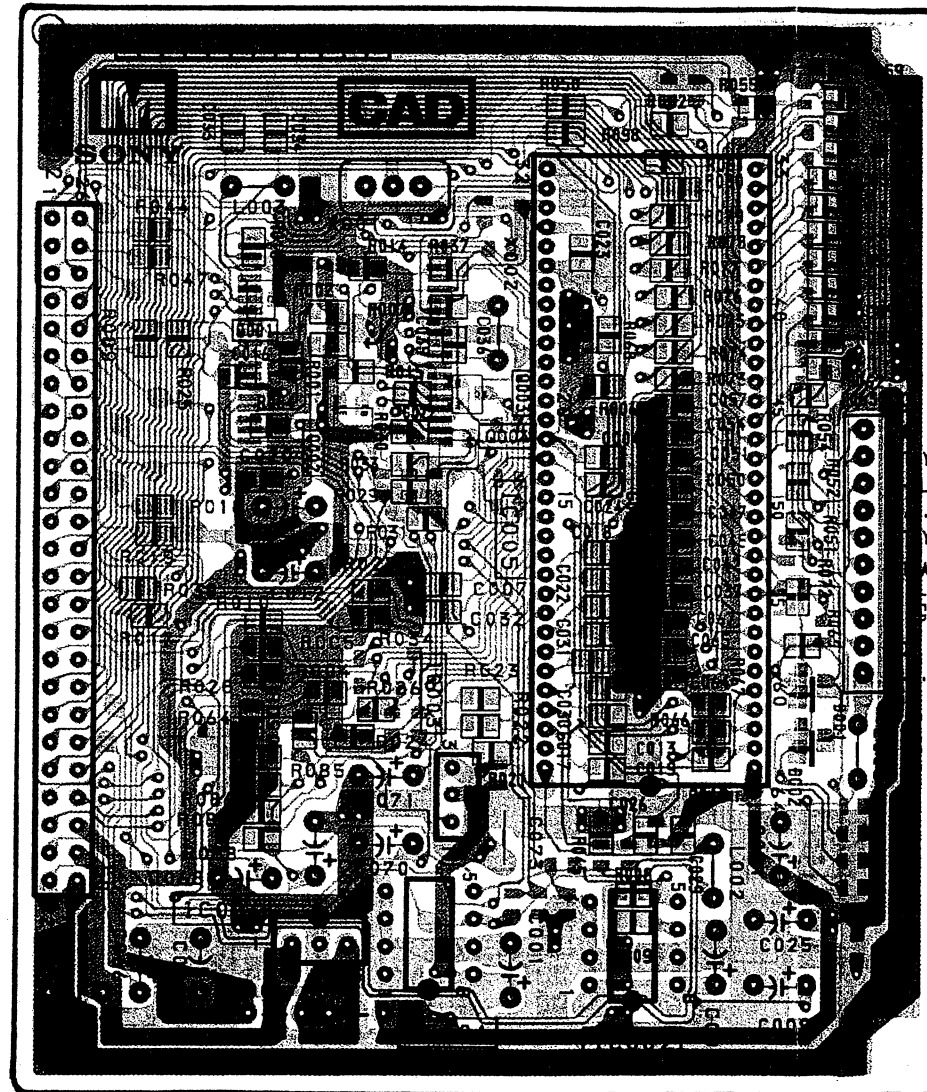
KV-S29JN1/S29MN1/S29SN1/S34JN1/S34MN1/S34SN1  
RM-821

KV-S29JN1/S29MN1/S29SN1/S34JN1/S34MN1/S34SN1  
RM-821

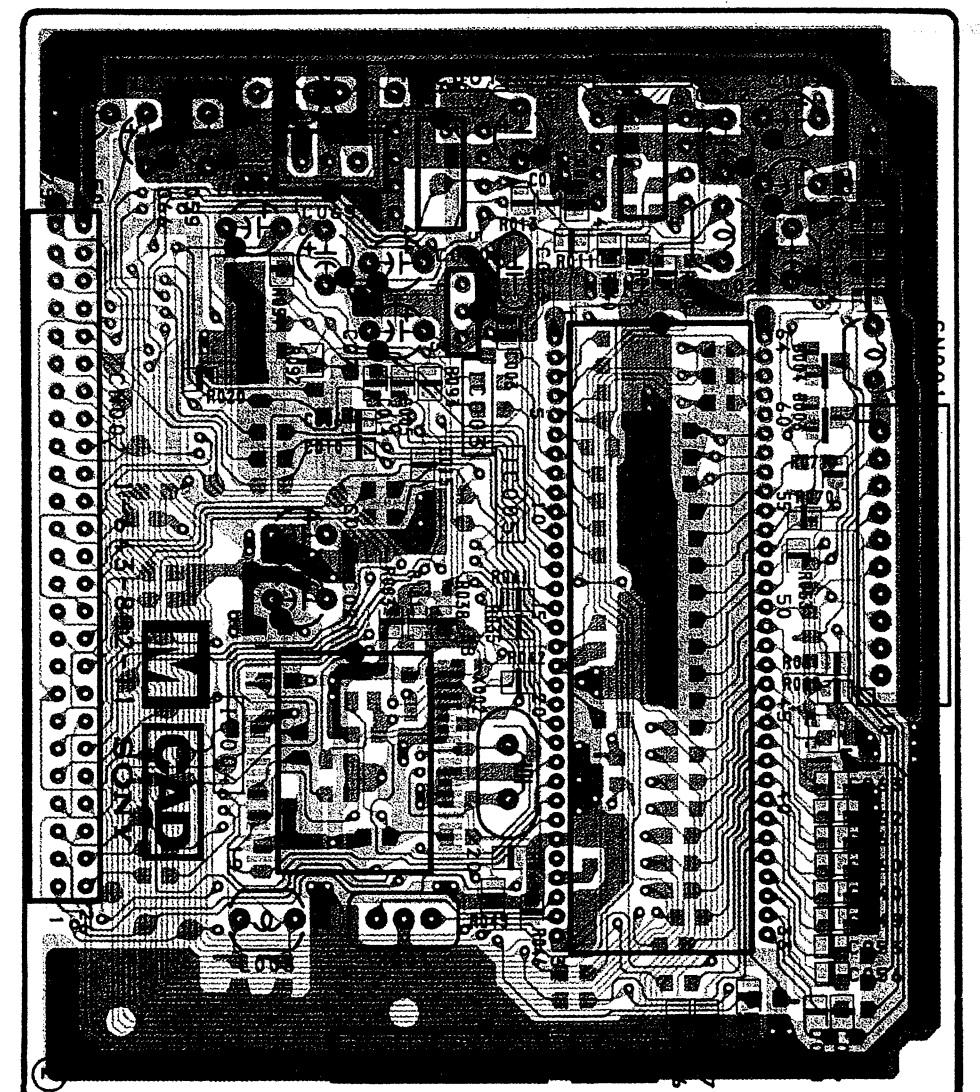
[JT, OUTPUT]

**M** [MICRO-CONTROLLER]

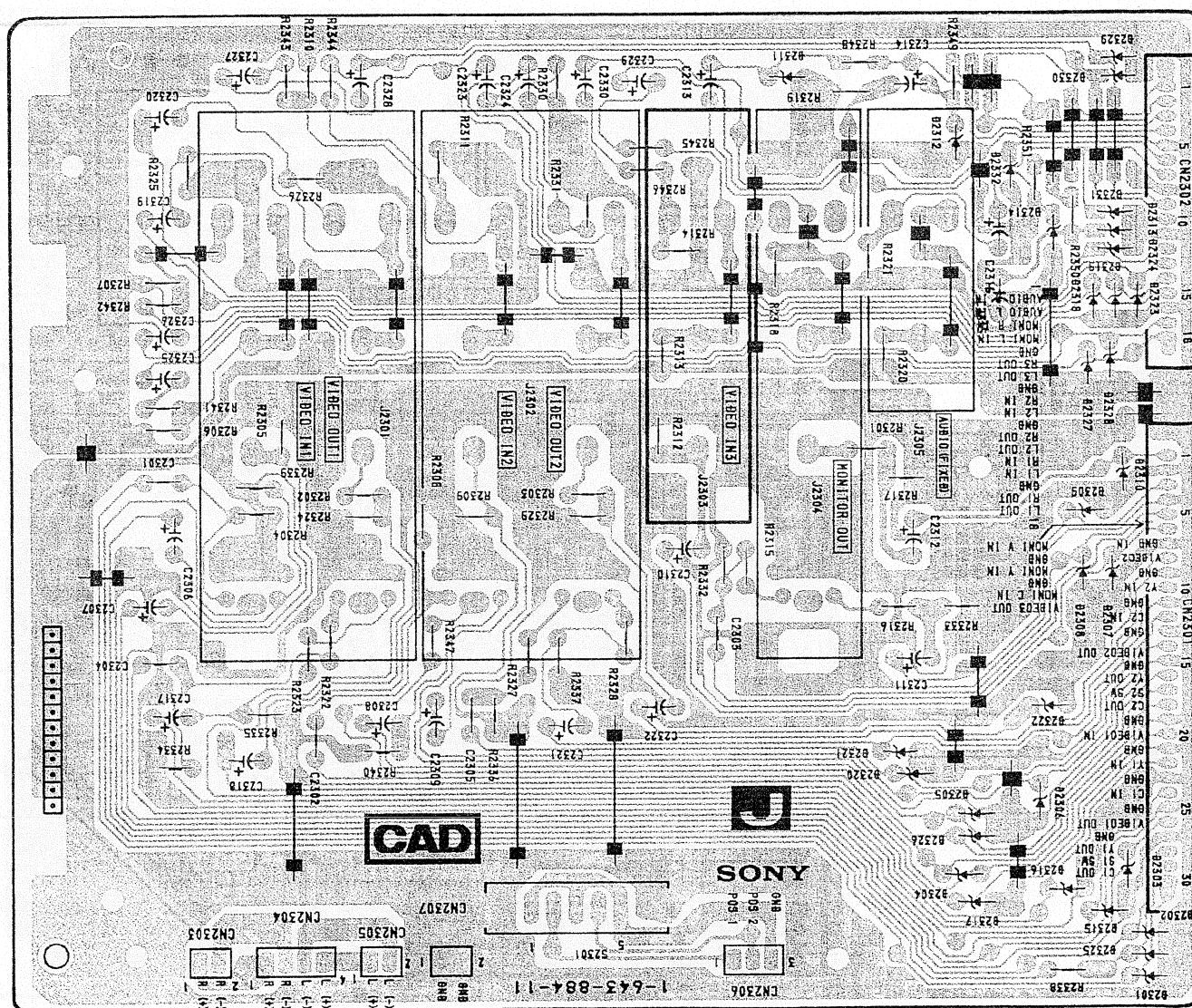
— M Board (Conductor Side) —



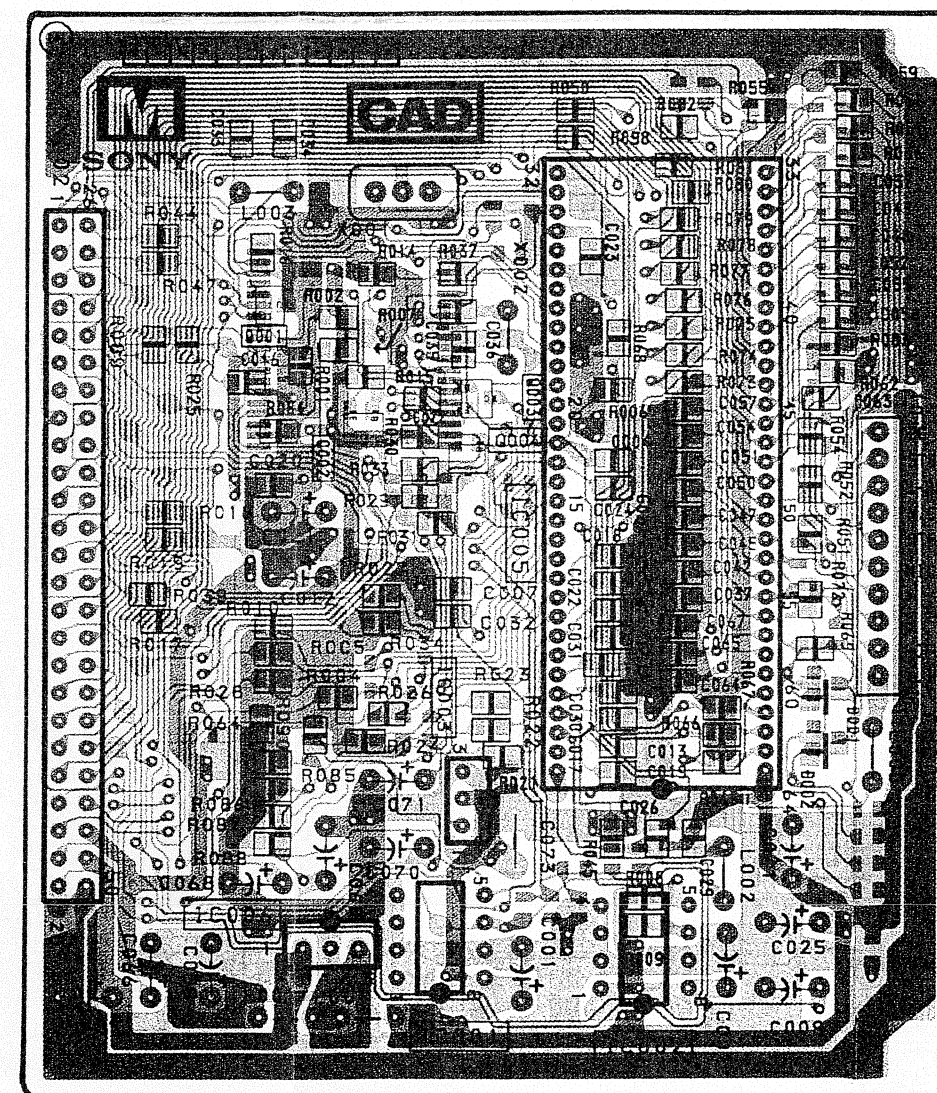
— M Board (Component Side) —



- J Board -



— M Board (Conductor Side) —





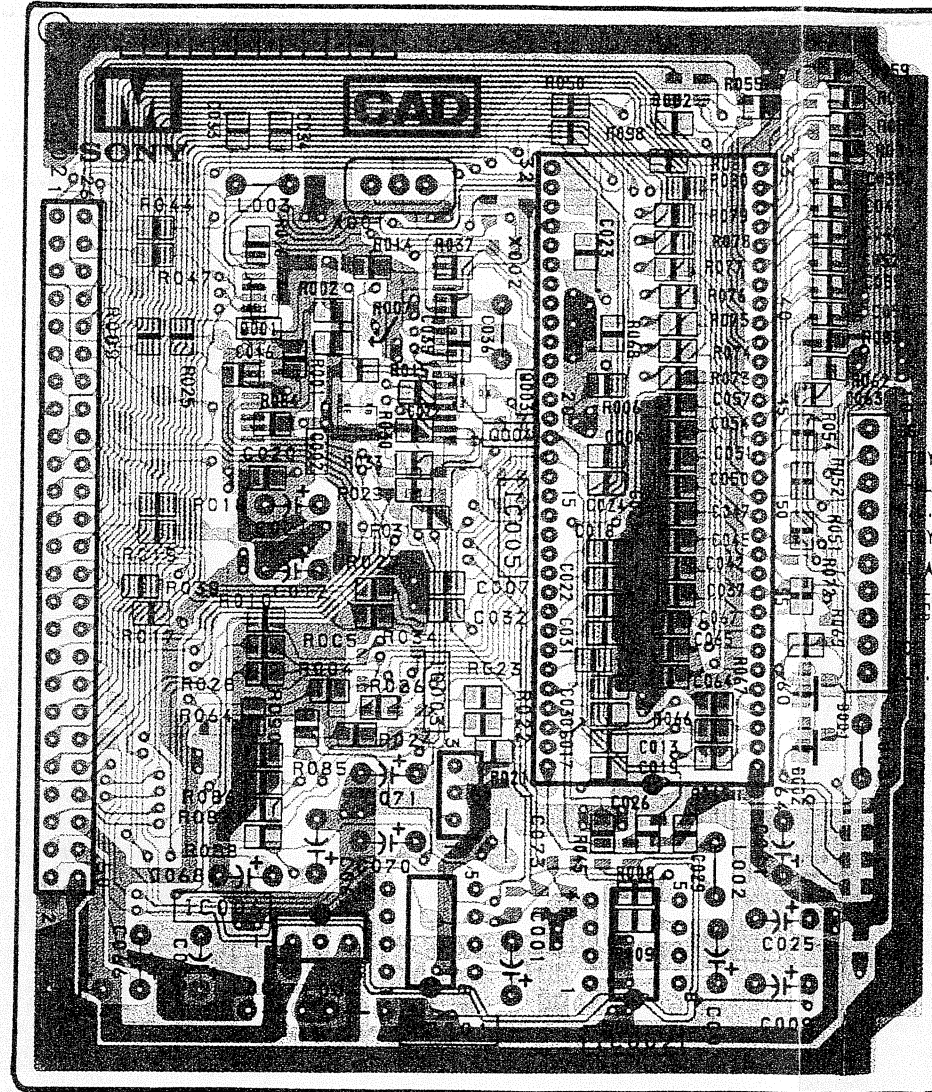
UT, OUTPUT]

**M** [MICRO-CONTROLLER]

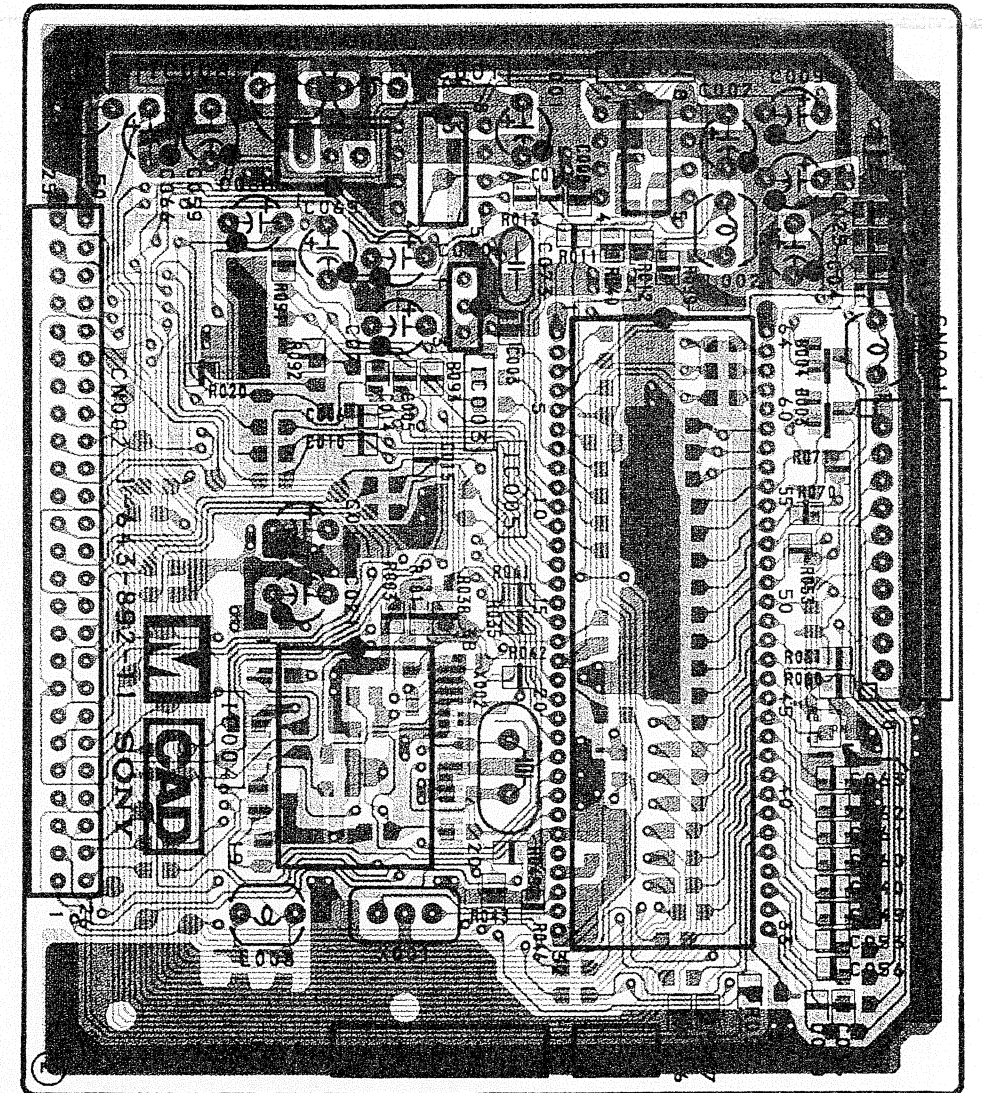
KV-S29JN1/S29MN1/S29SN1/S34JN1/S34MN1/S34SN1  
RM-821

KV-S29JN1/S29MN1/S29SN1/S34JN1/S34MN1/S34SN1  
RM-821

— M Board (Conductor Side) —



— M Board (Component Side) —



# (4) SCHEMATIC DIAGRAMS OF M AND J BOARDS

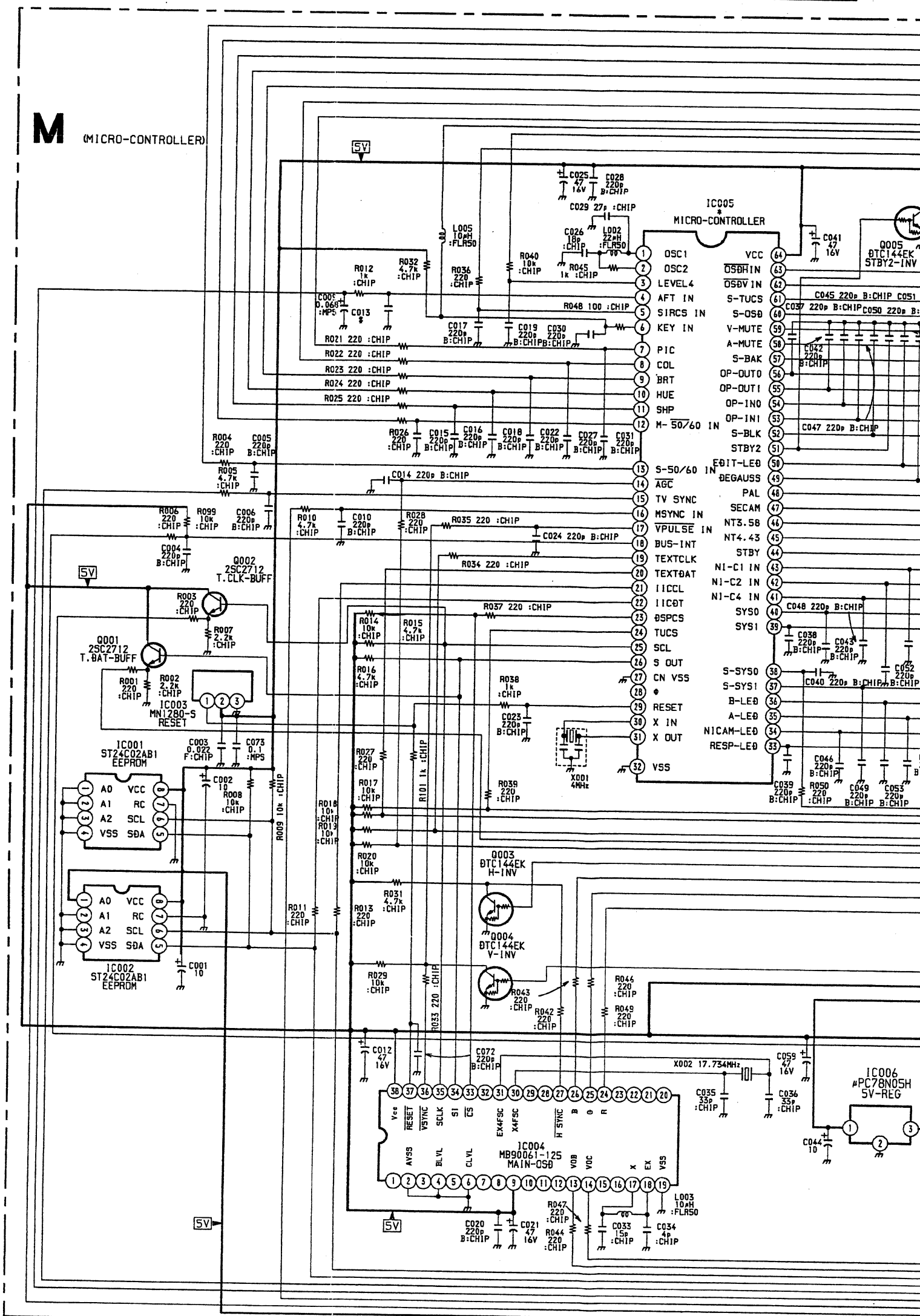
1 2 3 4 5 6 7 8 9 10

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P

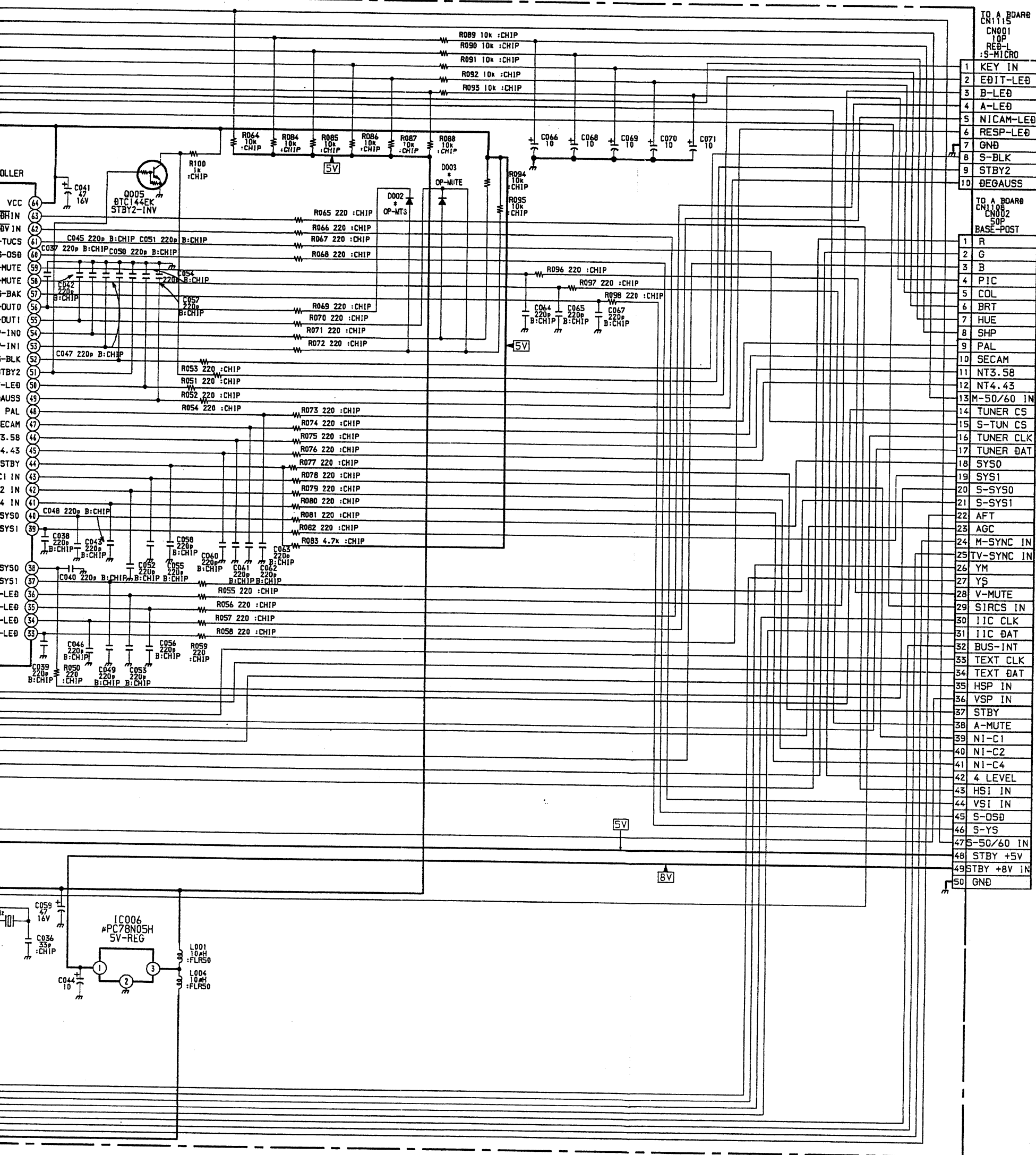
M BOARD MARK LIST

	KV-S29MNI/S34MNI S29SNI/S34SNI	KV-S29JN1/S34JN1 etc.
* IC005	M37204MB-A10SP	M37204MB-A11SP
* D002	1SS226	
* D003	1SS226	

**M** (MICRO-CONTROLLER)



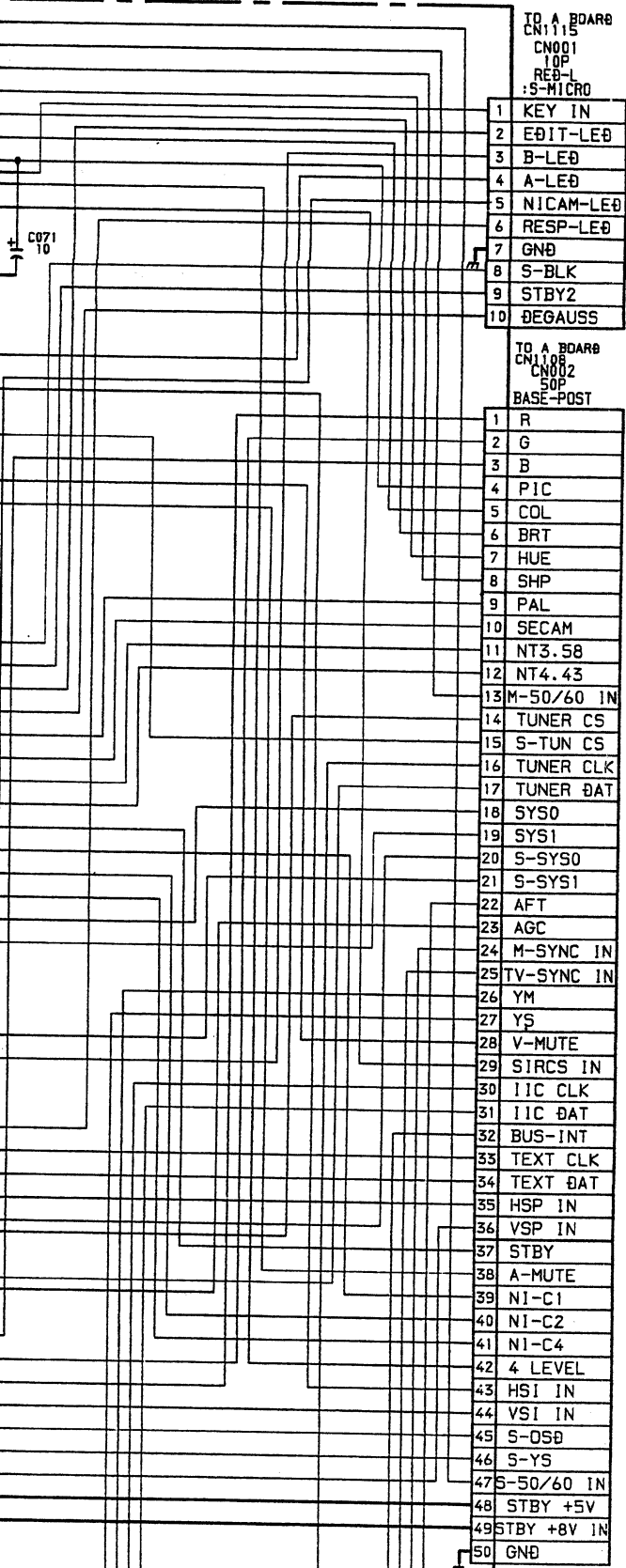
KV-S28JN1/S34JN1
etc.
M37204M8-A11SP



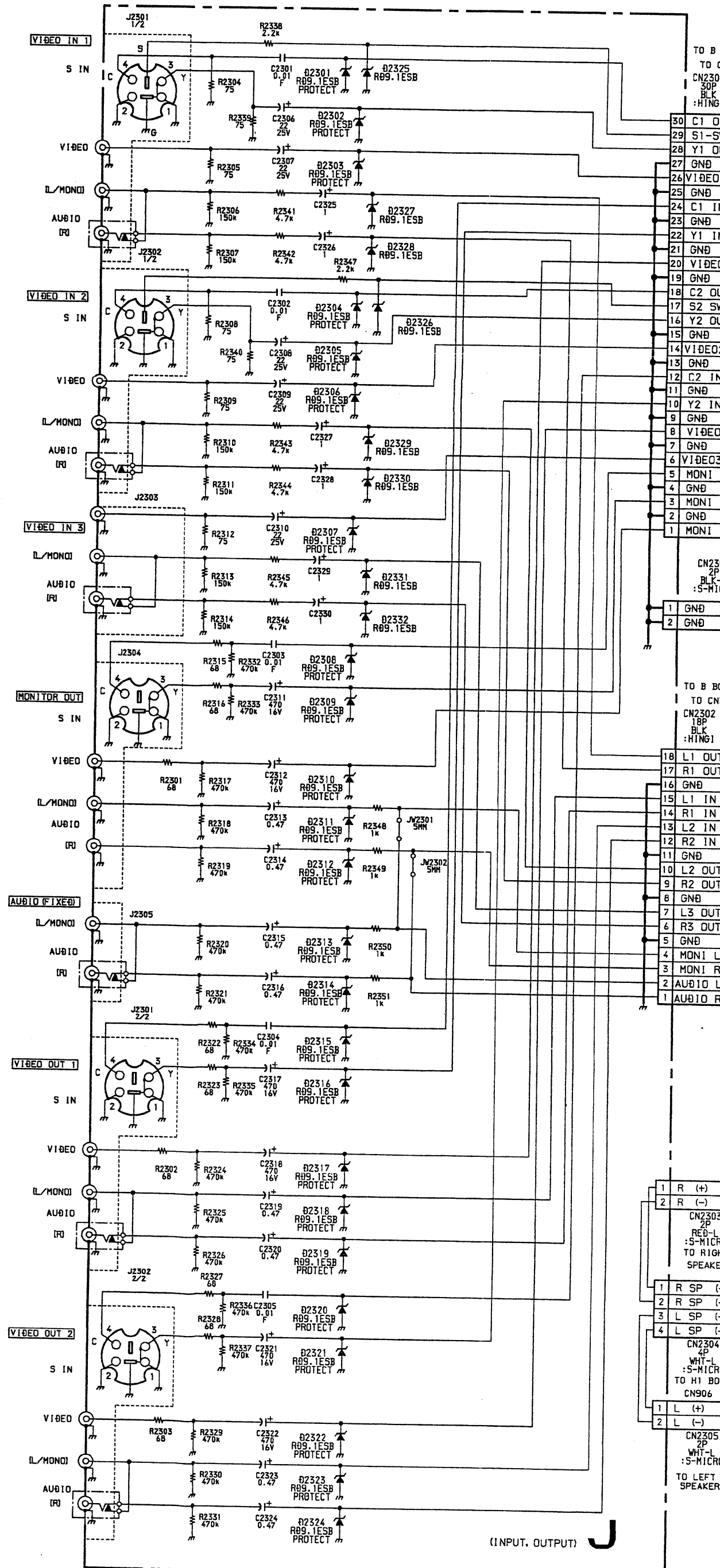
TO A BOARD
CN1115
CN001
10P
RED-L
S-MICRO
1 KEY IN
2 EDIT-LED
3 B-LED
4 A-LED
5 NICAM-LED
6 RESP-LED
7 GND
8 S-BLK
9 STBY2
10 DEGAUSS
TO A BOARD
CN1108
CN002
50P
BASE-POST
1 R
2 G
3 B
4 PIC
5 COL
6 BRT
7 HUE
8 SHP
9 PAL
10 SECAM
11 NT3.58
12 NT4.43
13 M-50/60 IN
14 TUNER CS
15 S-TUN CS
16 TUNER CLK
17 TUNER DAT
18 SYS0
19 SYS1
20 S-SYS0
21 S-SYS1
22 AFT
23 AGC
24 M-SYNC IN
25 TV-SYNC IN
26 YM
27 YS
28 V-MUTE
29 SIRCS IN
30 IIC CLK
31 IIC DAT
32 BUS-INT
33 TEXT CLK
34 TEXT DAT
35 HSP IN
36 VSP IN
37 STBY
38 A-MUTE
39 NI-C1
40 NI-C2
41 NI-C4
42 4 LEVEL
43 HSI IN
44 VSI IN
45 S-OSD
46 S-YS
47 S-50/60 IN
48 STBY +5V
49 STBY +8V IN
50 GND

B-SS4289<GE.>-M..



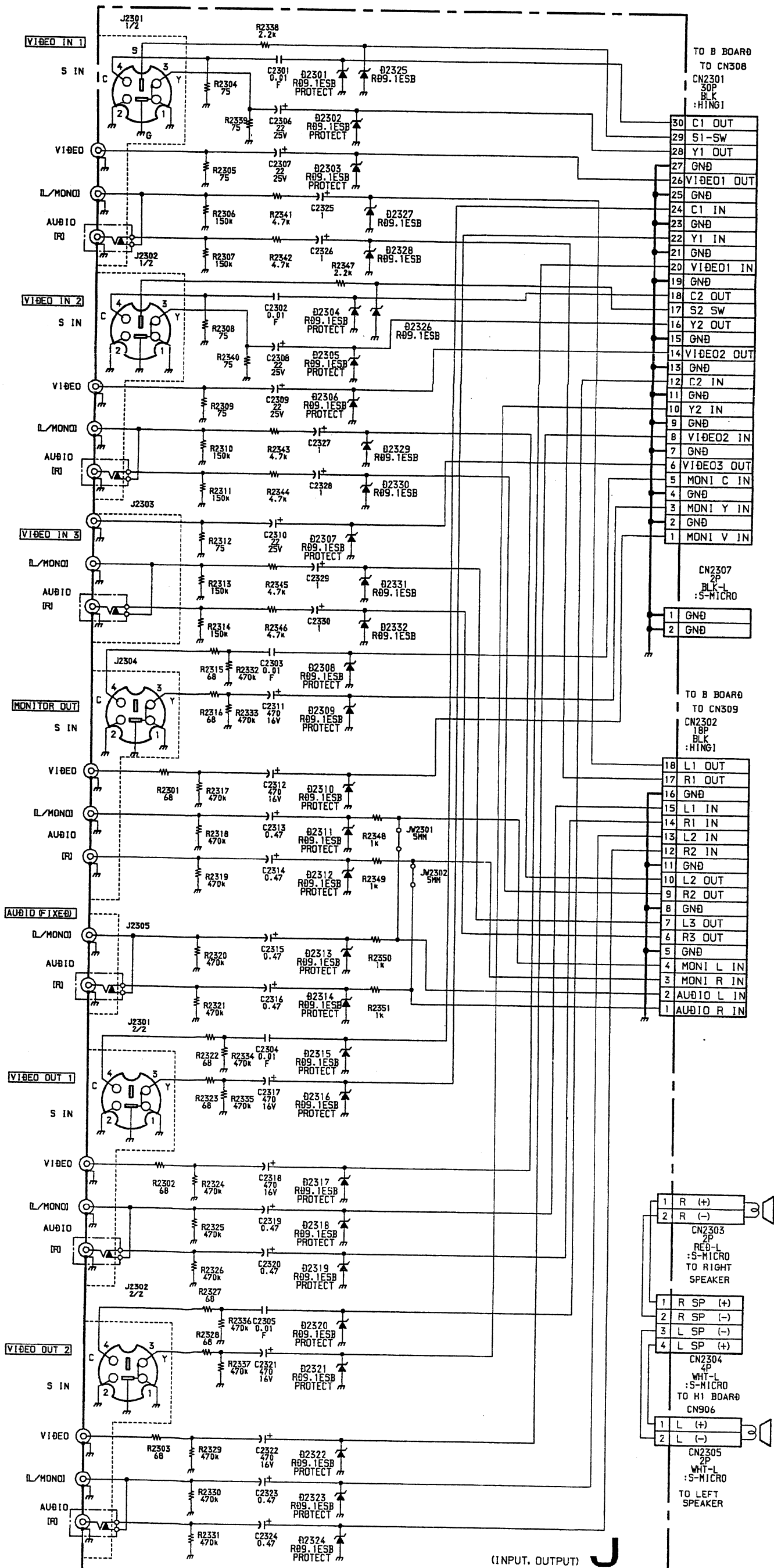


B-SS4289<GE.>-M..



B-SS2959<ME.>-J..





(INPUT, OUTPUT)

	1	2	3	4	5	6	7	8	9	10
--	---	---	---	---	---	---	---	---	---	----

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
M  
N  
O  
P



**C**



**J**



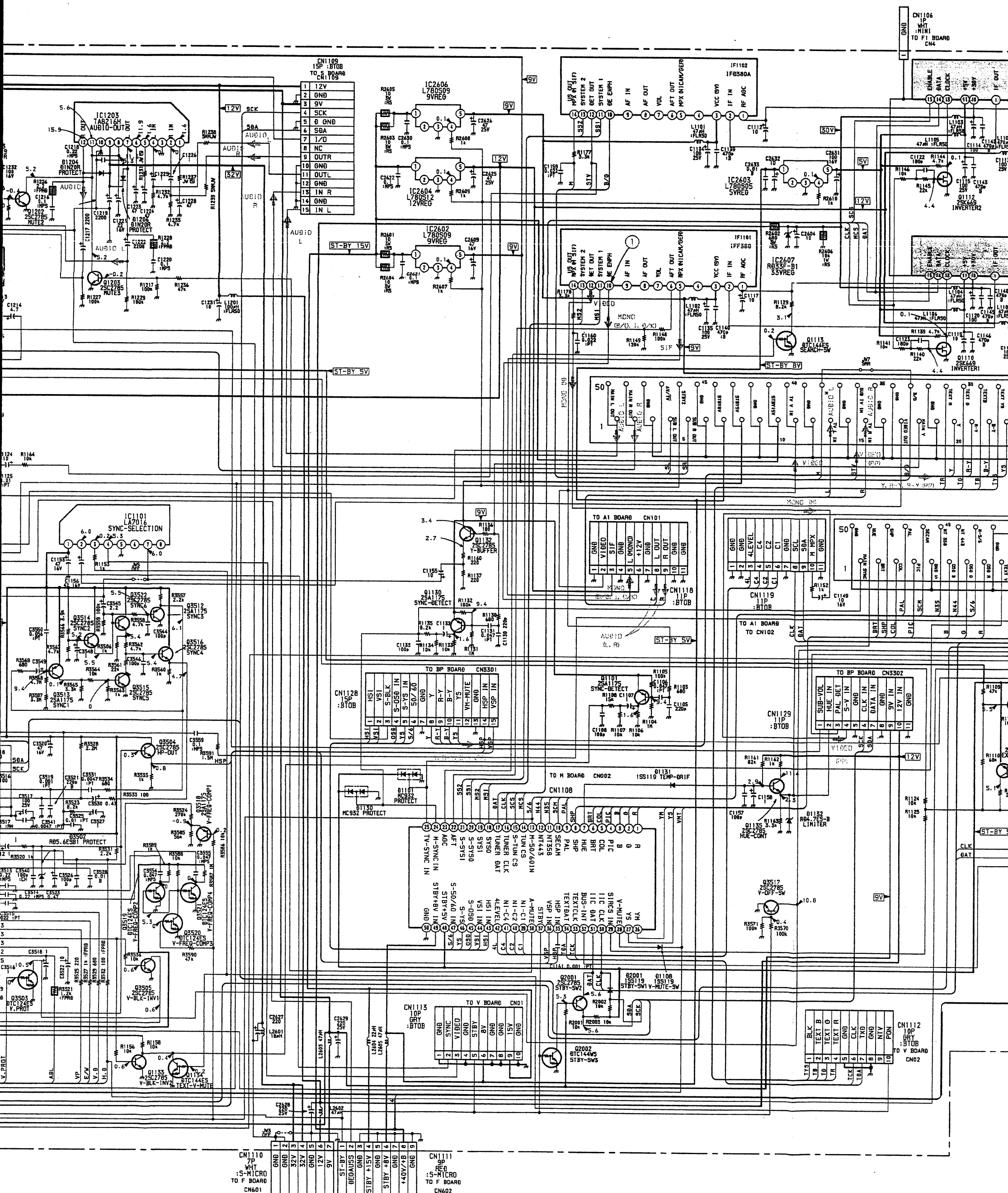
## L



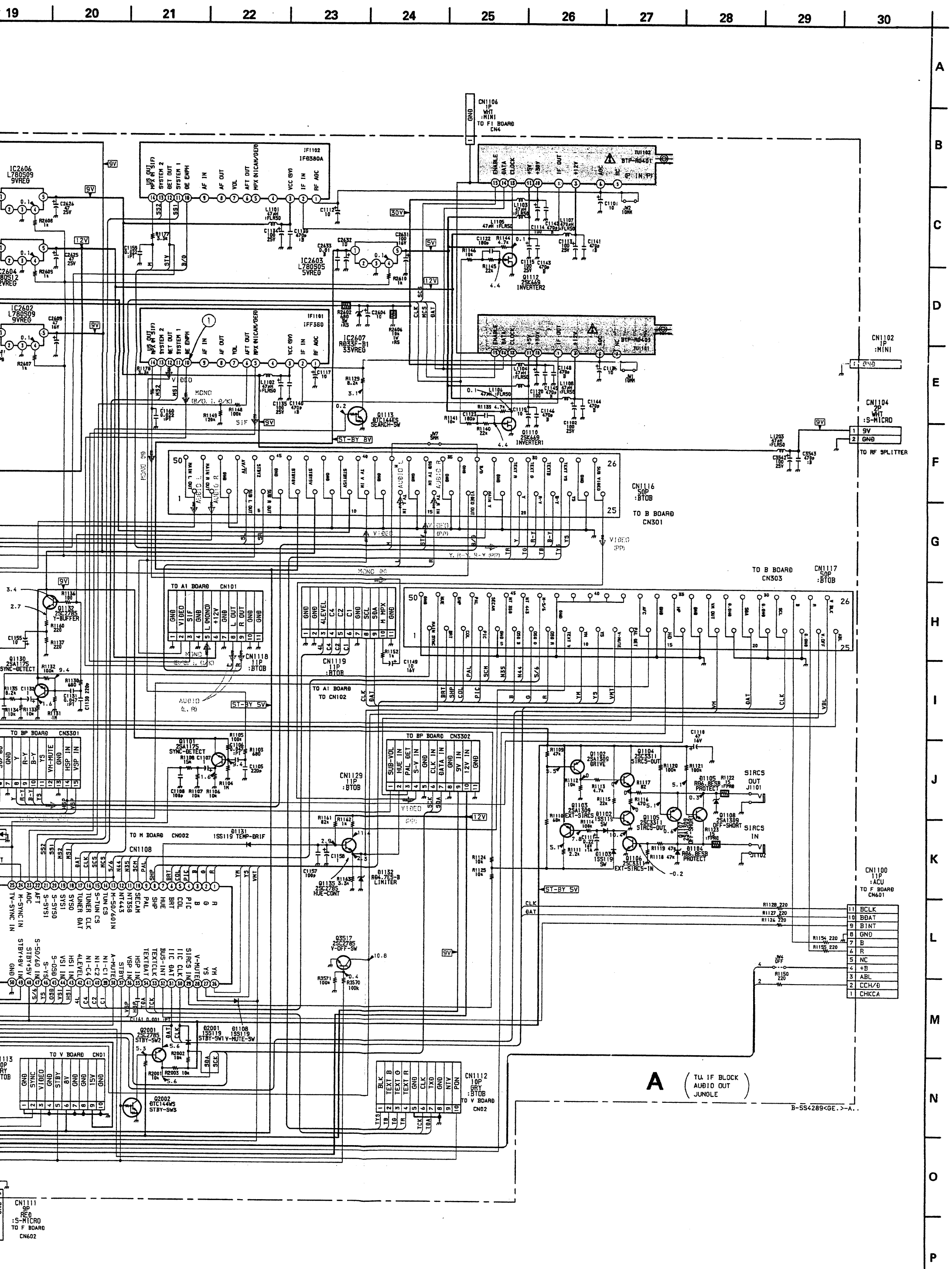
**N**











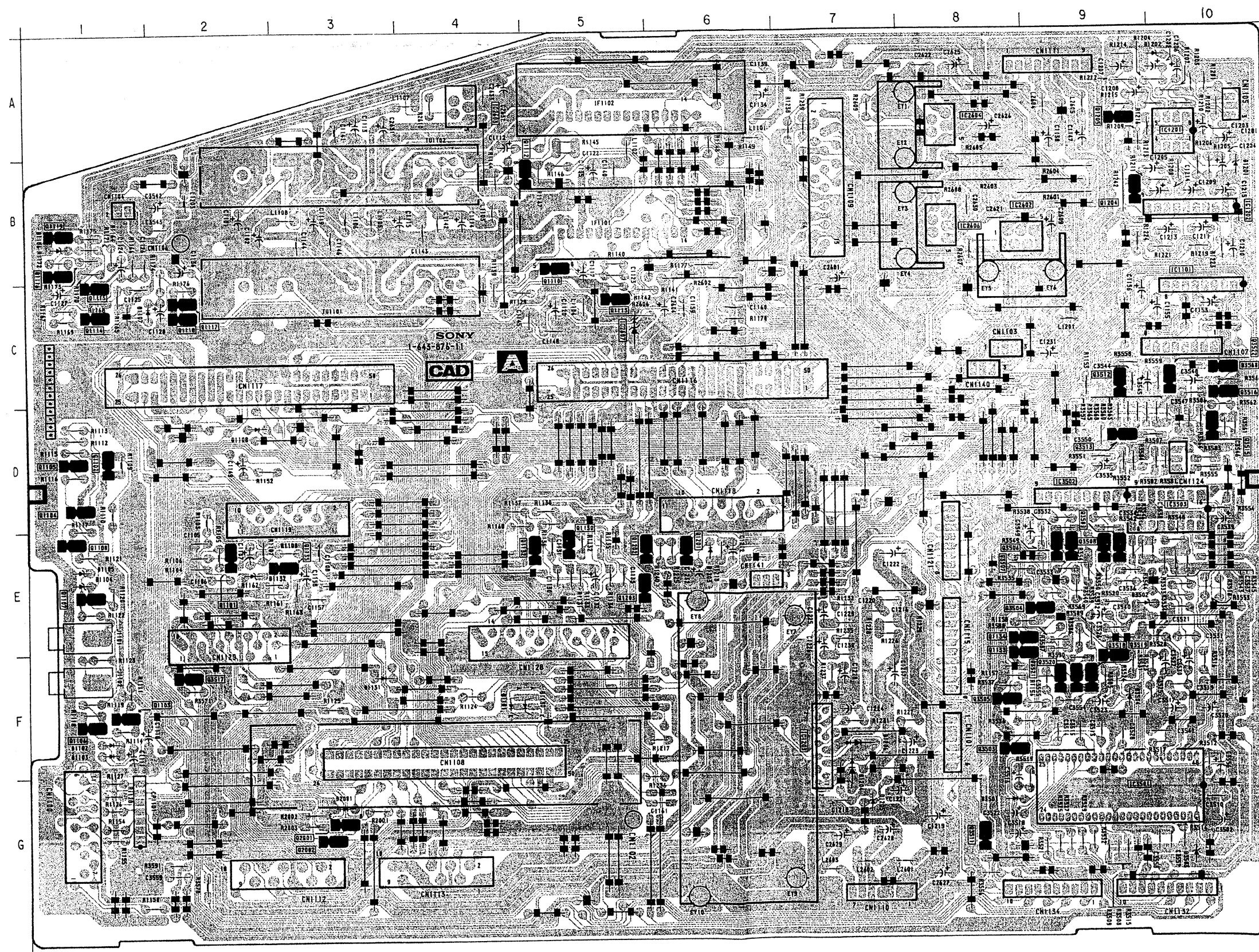
KV-S29JN1/S29MN1/S29SN1/S34JN1/S34MN1/S34SN1  
RM-821

KV-S29JN1/S29MN1/S29SN1/S34JN1/S34MN1/S34SN1  
RM-821

**A** TU, IF BLOCK  
AUDIO OUT  
JUNGLE

# PRINTED WIRING BOARD

- A Board -

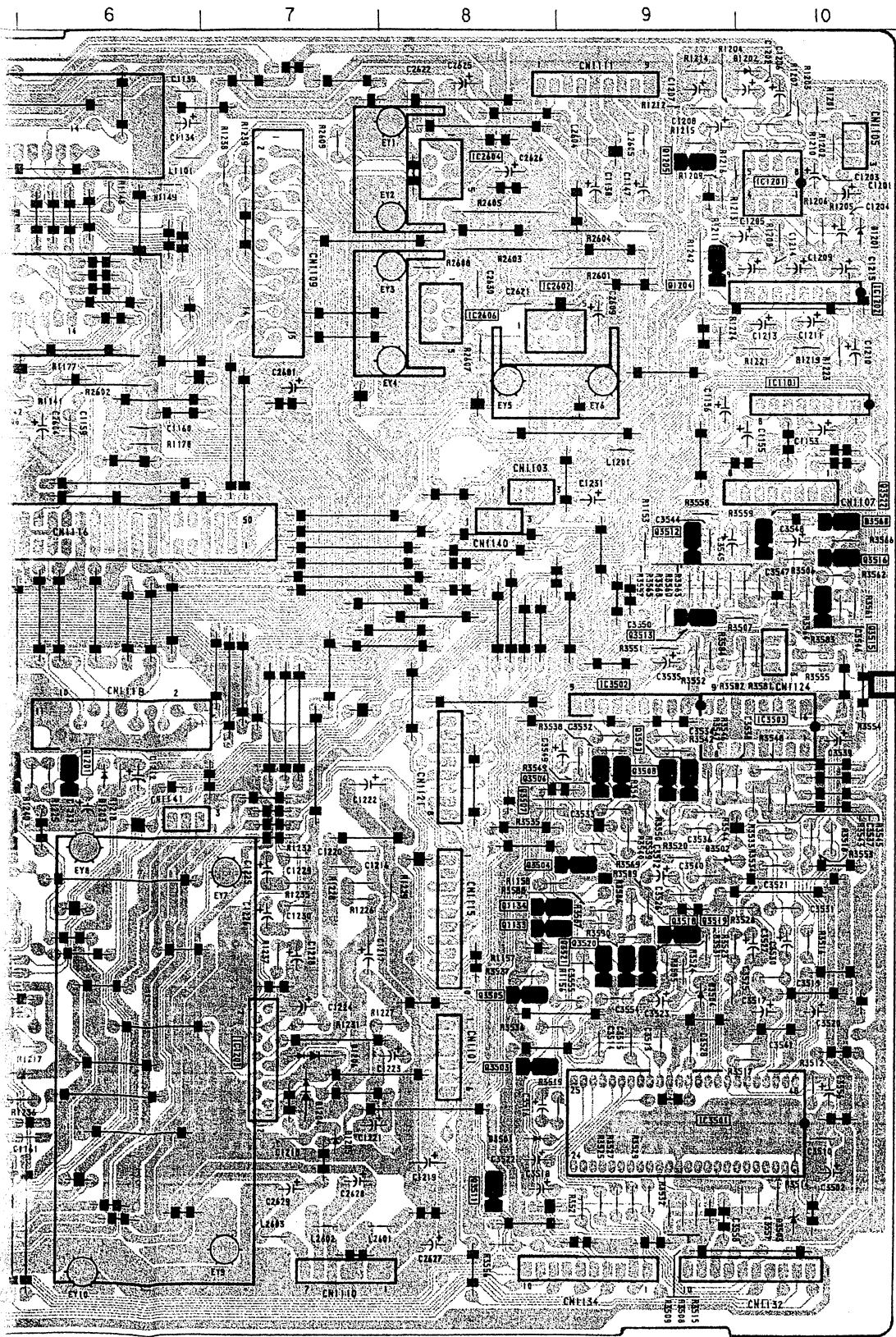


A Board

IC			
IC1101	C-10	Q2001	G-3
IC1201	A-10	Q3503	F-8
IC1202	B-10	Q3504	E-9
IC1203	F-7	Q3505	F-8
IC2602	B-8	Q3506	E-9
IC2603	A-4	Q3507	E-9
IC2604	A-8	Q3508	E-9
IC2606	B-8	Q3509	E-9
IC2607	C-5	Q3511	G-8
IC3501	G-9	Q3512	C-9
IC3502	D-9	Q3513	D-9
IC3503	D-10	Q3514	C-10
		Q3515	D-10
		Q3516	C-10
		Q3517	F-2
		Q3518	F-9
		Q3519	F-9
		Q3520	F-9
		Q3521	F-9
		Q3522	C-10
TRANSISTOR		DIODE	
Q1101	E-2	D1101	F-4
Q1102	D-1	D1102	F-1
Q1103	F-1	D1103	F-1
Q1104	D-1	D1104	E-1
Q1105	D-1	D1105	E-1
Q1106	F-1	D1106	B-1
Q1107	E-1	D1107	C-1
Q1108	E-1	D1108	D-2
Q1110	B-5	D1130	F-5
Q1112	B-5	D1131	F-3
Q1113	C-5	D1132	E-2
Q1114	C-1	D1201	B-10
Q1115	C-1	D1202	A-10
Q1116	B-1	D1203	E-6
Q1117	C-2	D1204	G-7
Q1118	C-2	D1206	F-7
Q1119	B-1	D2001	G-3
Q1130	E-5	D3501	G-8
Q1132	E-5	D3502	E-9
Q1133	F-8		
Q1134	E-8		
Q1135	E-3		
Q1201	E-6		
Q1202	E-5		
Q1203	E-5		
Q1204	B-9		
Q1205	A-9		



IF BLOCK  
AUDIO OUT  
ANGLE



A Board

IC		
IC1101	C-10	Q2001 G-3
IC1201	A-10	Q3503 F-8
IC1202	B-10	Q3504 E-9
IC1203	F-7	Q3505 F-8
IC2602	B-8	Q3506 E-9
IC2603	A-4	Q3507 E-9
IC2604	A-8	Q3508 E-9
IC2606	B-8	Q3509 E-9
IC2607	C-5	Q3511 G-8
IC3501	G-9	Q3512 C-9
IC3502	D-9	Q3513 D-9
IC3503	D-10	Q3514 C-10
TRANSISTOR		Q3515 D-10
Q1101	E-2	Q3516 C-10
Q1102	D-1	Q3517 F-2
Q1103	F-1	Q3518 F-9
Q1104	D-1	Q3519 F-9
Q1105	D-1	Q3520 F-9
Q1106	F-1	Q3521 F-9
Q1107	E-1	Q3522 C-10
Q1108	E-1	DIODE
Q1110	B-5	
Q1112	B-5	
Q1113	C-5	
Q1114	C-1	
Q1115	C-1	
Q1116	B-1	
Q1117	C-2	
Q1118	C-2	
Q1119	B-1	
Q1130	E-5	
Q1132	E-5	
Q1133	F-8	
Q1134	E-8	
Q1135	E-3	
Q1201	E-6	
Q1202	E-5	
Q1203	E-5	
Q1204	B-9	
Q1205	A-9	

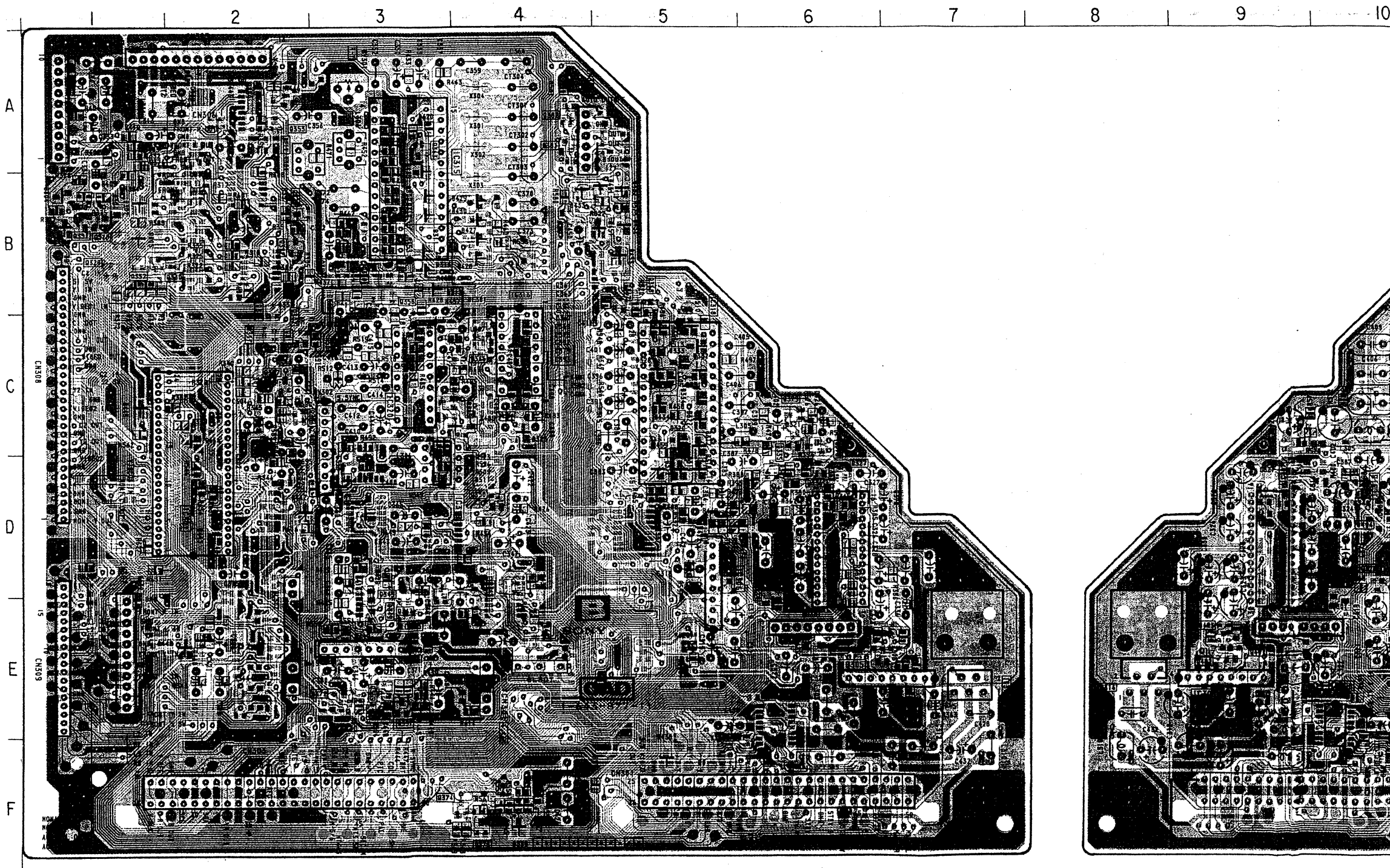
**B** VIDEO-SW, AUDIO-SW, SHARPNESS,  
DINMIC PIC, CHROMA DECODER  
R, G, B INTERFACE

PRINTED WIRING BOARD

- B Board (Conductor Side) -

B Board

IC		Q328	B-1	Q391	B-12	D333	C-5
IC301	D-2	Q329	B-1	Q392	B-12	D334	C-5
IC302	B-13	Q330	B-1	Q393	A-11	D335	B-11
IC303	A-13	Q331	B-1	Q394	A-11	D336	C-11
IC304	B-13	Q332	B-1	Q395	A-11	D337	C-11
IC305	E-6	Q335	D-6	Q396	A-11	D338	C-11
IC306	D-5	Q336	D-6	Q397	D-13	D339	F-4
IC307	D-6	Q337	E-6	Q398	D-13	D340	F-12
IC308	E-10	Q338	E-10	Q399	F-13	D341	D-9
IC309	E-12	Q339	B-11	Q400	E-4	D427	B-4
IC310	E-12	Q340	D-3	Q401	E-9	D428	B-4
IC311	D-12	Q341	B-12	Q402	E-9	D429	B-4
IC312	D-13	Q342	B-11	Q403	E-9	D430	B-4
IC313	E-3	Q343	D-4	Q404	D-10	D431	B-5
IC314	E-7	Q344	B-12	Q405	E-14	D432	B-5
IC315	B-3	Q345	D-3	Q406	E-14	D433	B-4
IC316	C-4	Q346	D-12	Q407	C-12	D434	C-5
IC317	D-13	Q347	E-3	Q408	C-12	D435	B-3
IC318	C-5	Q348	C-12	Q409	C-12	D436	E-11
IC319	D-3	Q349	E-3	Q410	C-12	D437	E-11
IC320	C-3	Q350	D-4	Q441	E-11	D439	E-6
IC321	D-11	Q351	E-12	Q442	E-4	D442	D-2
IC322	C-3	Q354	B-3			D448	E-2
		Q356	D-11			D449	C-12
		Q357	E-3			D450	C-3
		Q358	B-3				
		Q359	E-3				
TRANSISTOR		DIODE		VARIABLE RESISTOR		TRIMMER	
Q301	C-2	Q360	B-3	D301	B-1	CT303	B-4
Q302	C-2	Q361	E-12	D302	B-1	CT304	A-4
Q303	B-14	Q362	D-12	D303	B-1		
Q304	B-14	Q363	A-3	D304	B-1		
Q305	A-14	Q365	C-3	D305	B-1		
Q306	A-14	Q366	C-4	D306	E-7		
Q307	F-13	Q367	B-5	D307	C-4		
Q308	B-14	Q368	B-5	D308	D-3		
Q309	F-13	Q369	B-11	D309	B-3		
Q310	B-14	Q370	B-11	D310	B-3		
Q311	B-14	Q371	E-6	D311	B-3		
Q312	F-13	Q372	E-3	D312	D-5		
Q313	C-2	Q373	F-4	D313	B-3		
Q314	F-13	Q374	F-4	D314	B-3		
Q315	B-14	Q375	F-12	D315	D-12		
Q316	C-2	Q376	F-12	D317	C-5		
Q317	F-13	Q377	F-12	D318	D-5		
Q318	F-13	Q378	C-6	D319	D-5		
Q319	E-14	Q379	C-6	D320	C-5		
Q320	D-13	Q380	E-13	D321	C-6		
Q321	D-13	Q381	A-4	D322	C-5		
Q322	B-2	Q382	A-4	D323	C-4		
Q323	B-2	Q385	C-13	D324	C-11		
Q324	E-14	Q386	C-2	D328	C-5		
Q325	D-13	Q387	C-2	D329	C-5		
Q326	D-10	Q389	B-12	D330	B-10		
Q327	D-6	Q390	B-12	D331	C-5		
				D332	C-5		





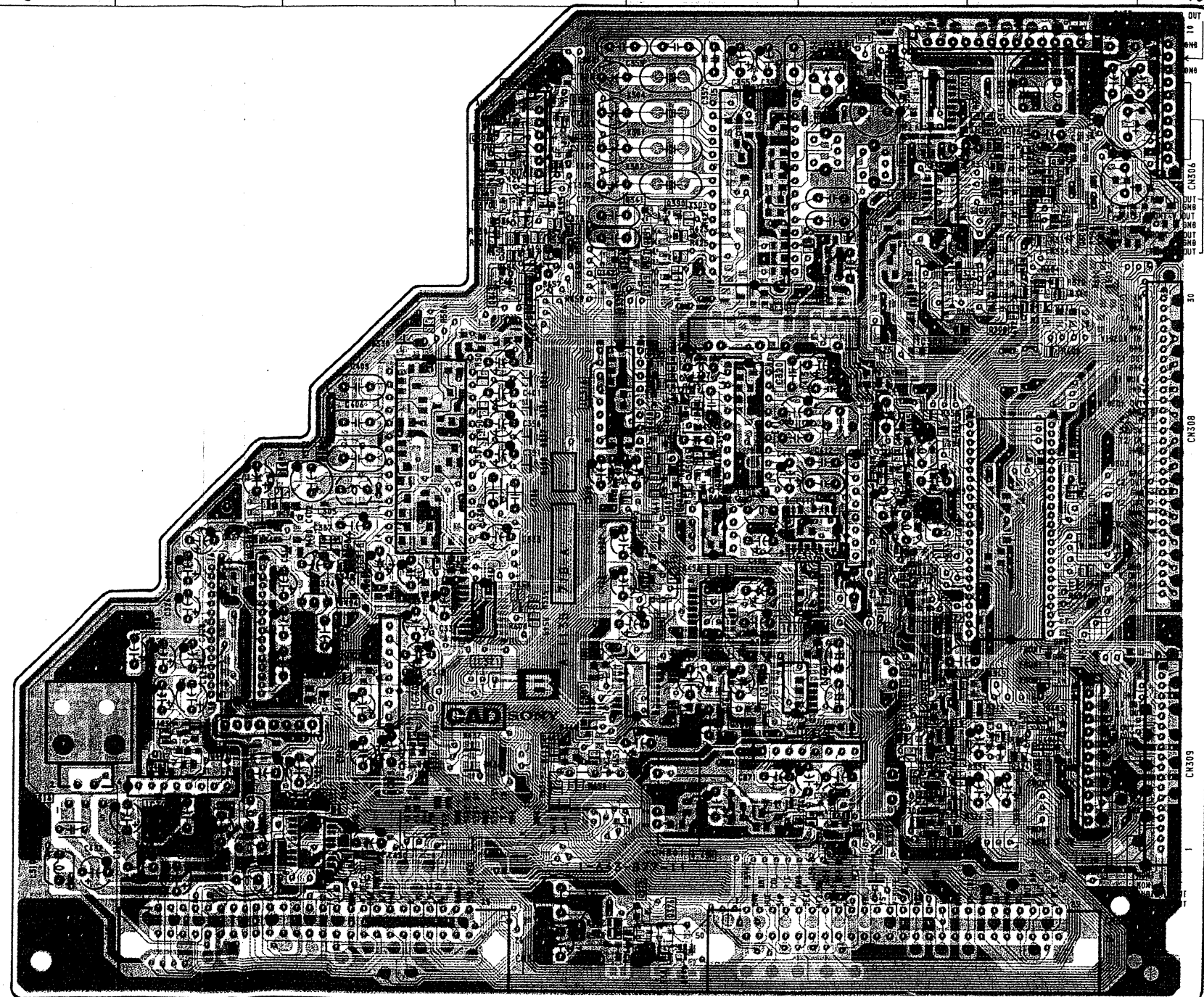
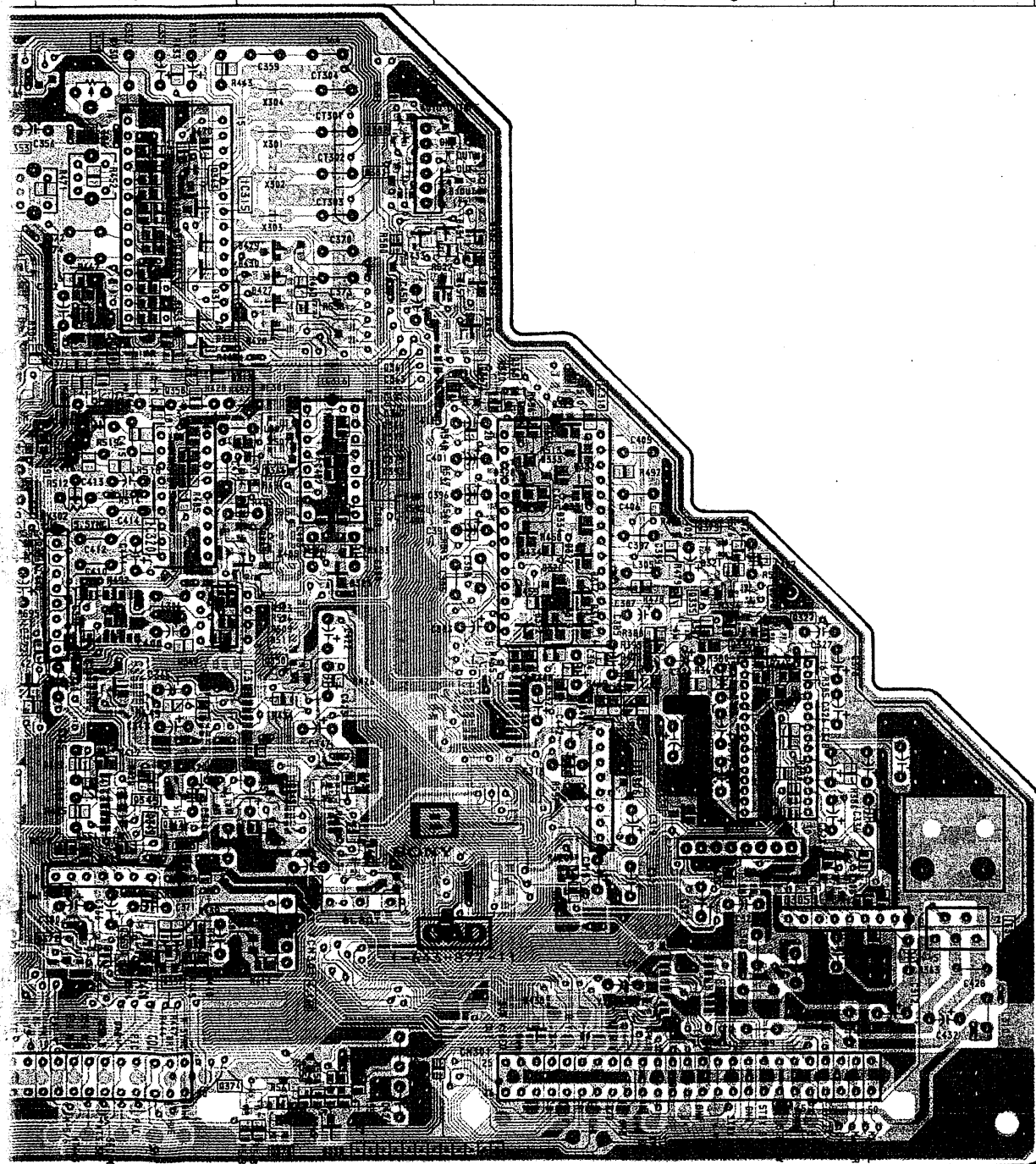
KV-S29JN1/S29MN1/S29SN1/S34JN1/S34MN1/S34SN1  
RM-821

KV-S29JN1/S29MN1/S29SN1/S34JN1/S34MN1/S34SN1  
RM-821

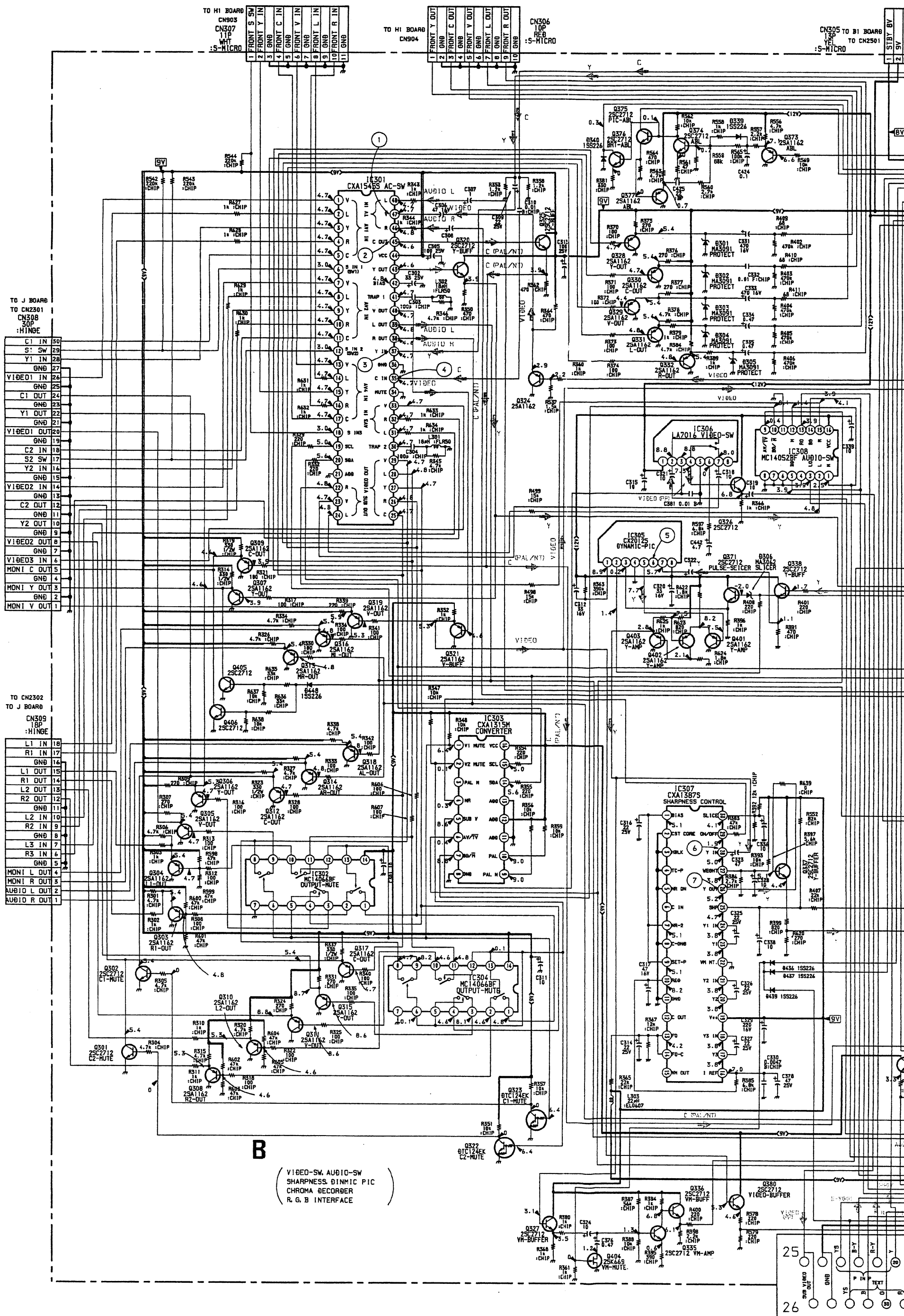
SHARPNESS,  
REORDER

— B Board (Component Side) —

3 4 5 6 7 8 9 10 11 12 13 14 15

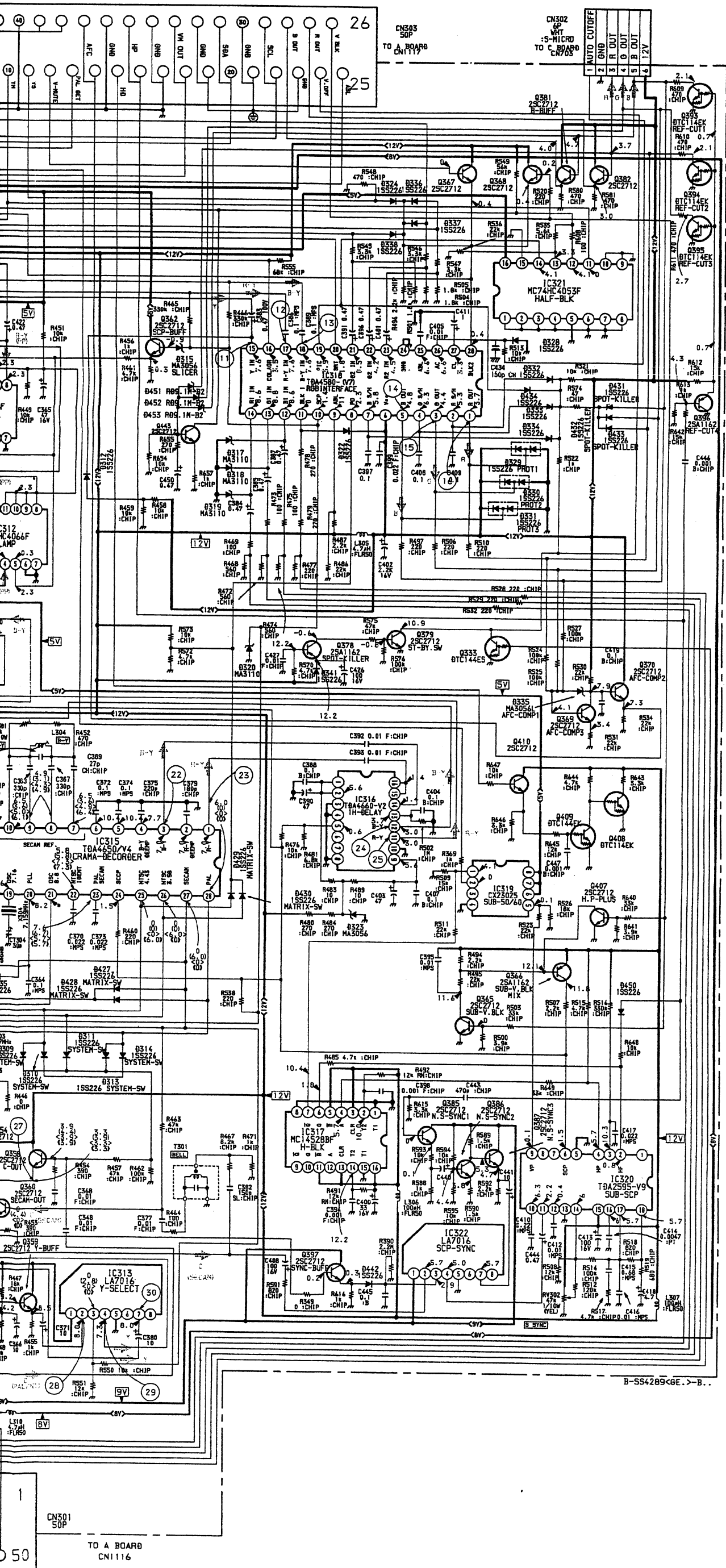


# (6) SCHEMATIC DIAGRAM OF B BOARD

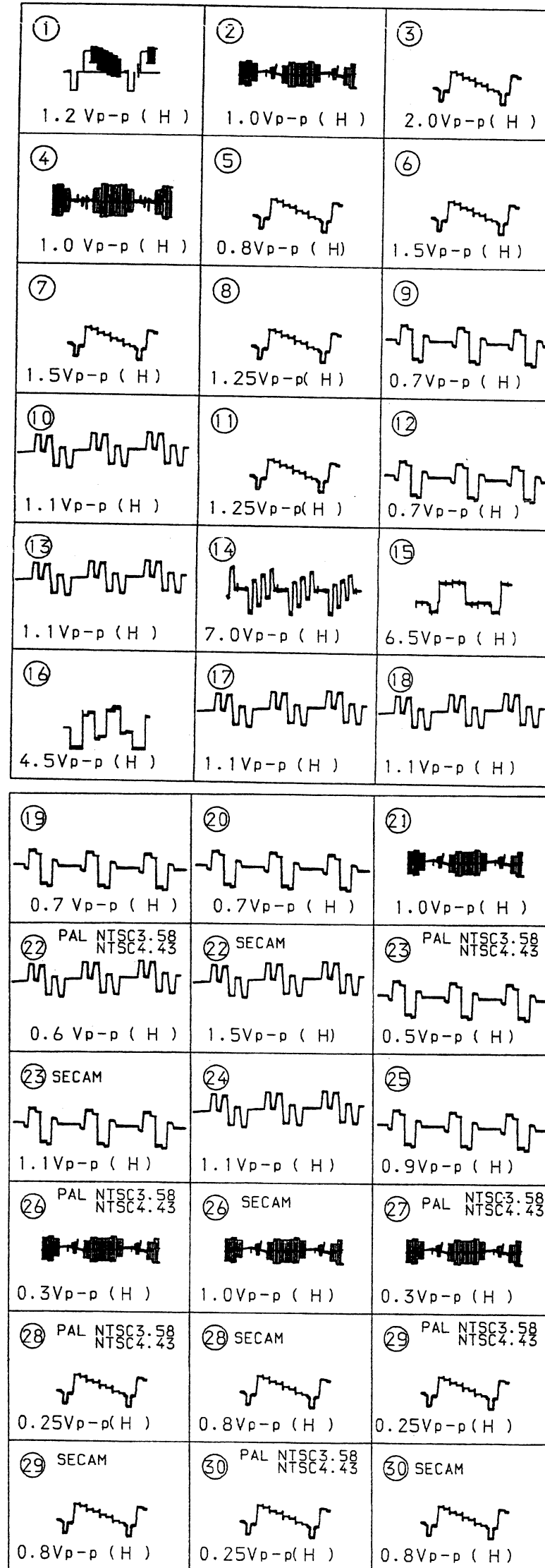




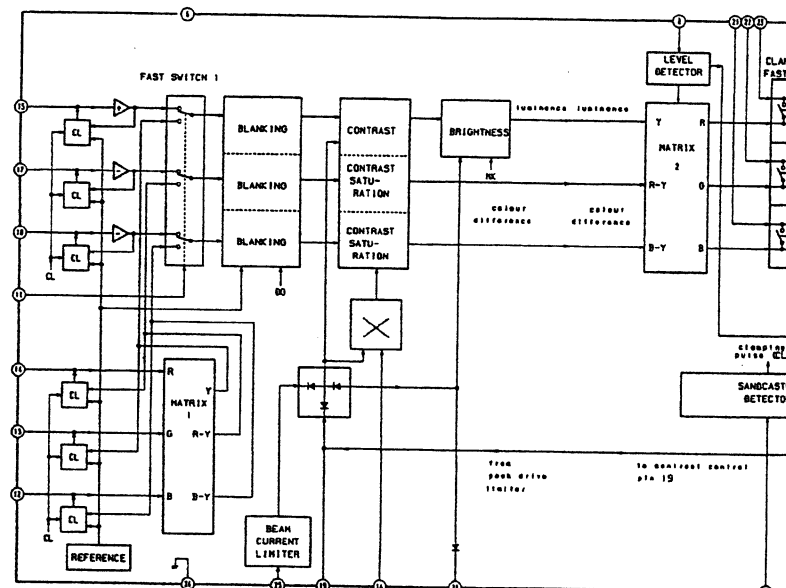




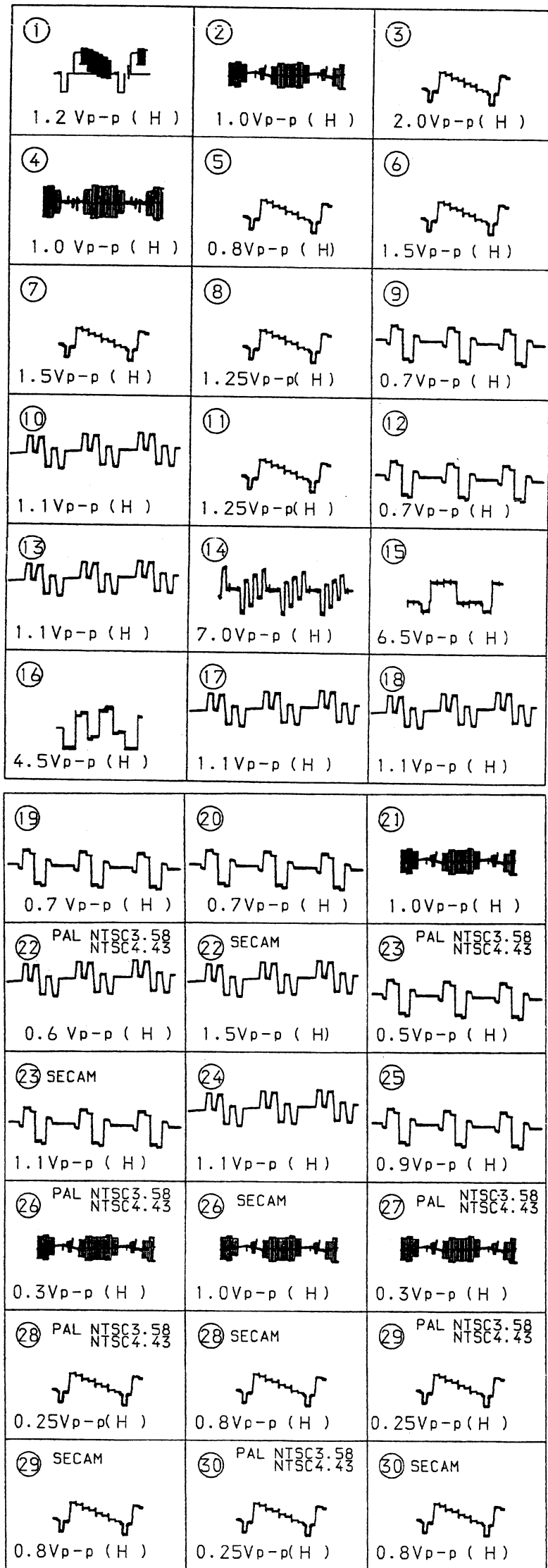
# B BOARD WAVEFORMS



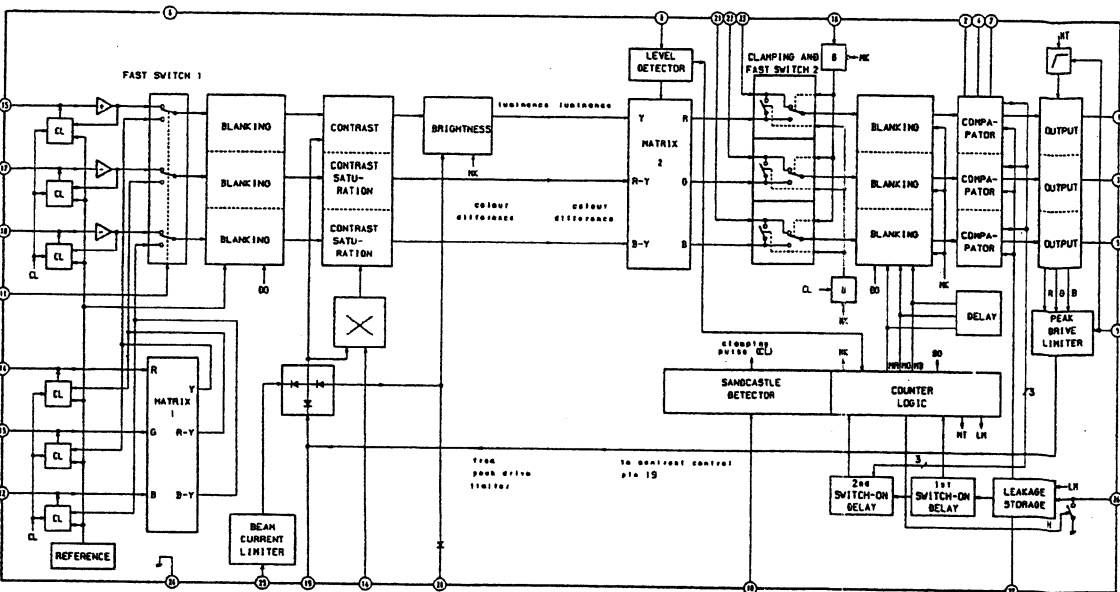
## B Board IC318 TDA4580



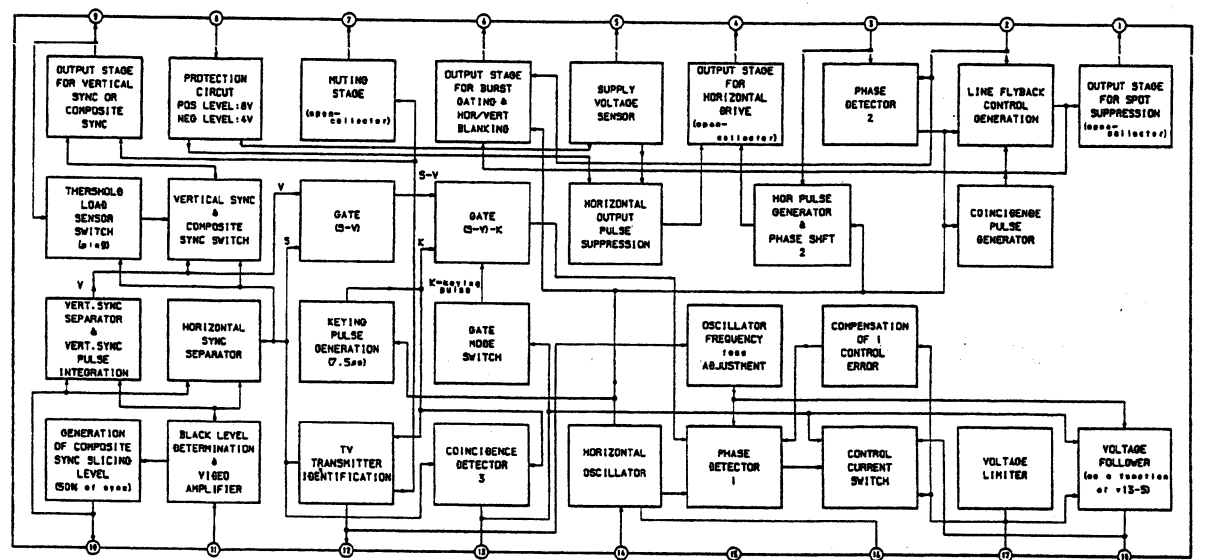
## B BOARD WAVEFORMS



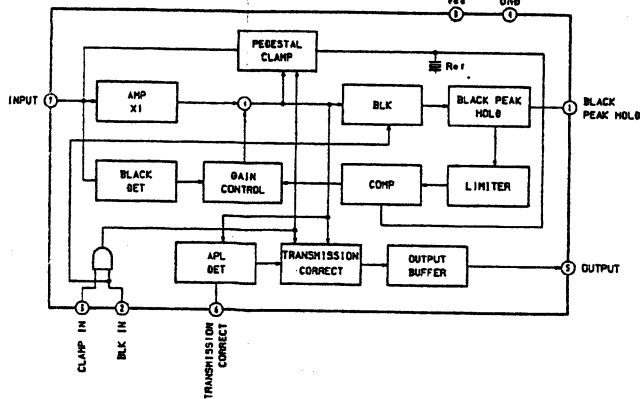
B Board IC318 TDA4580



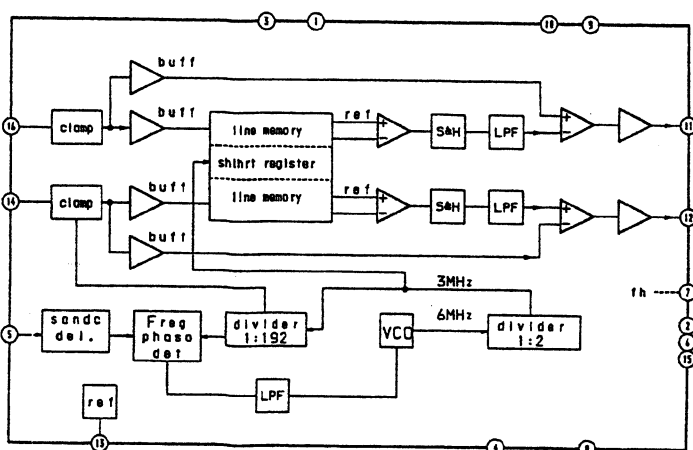
B Board IC320 TDA2595-V9



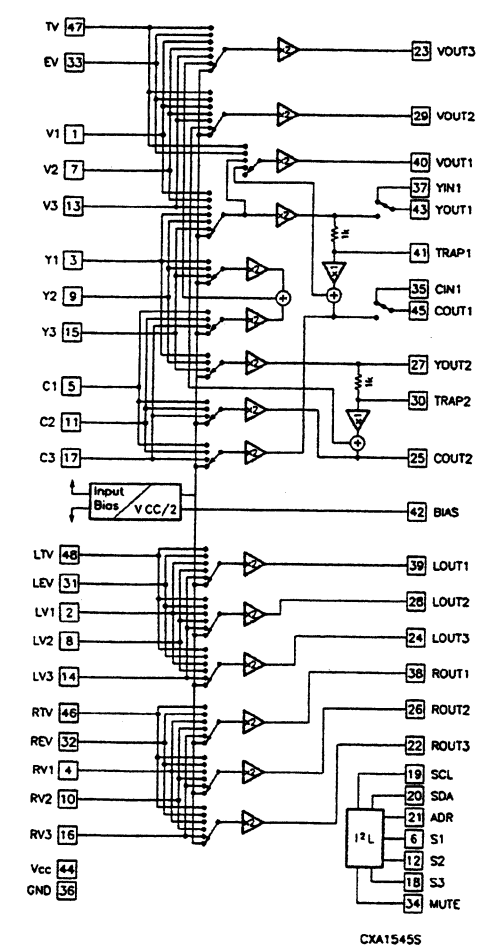
B Board IC305 CX20125



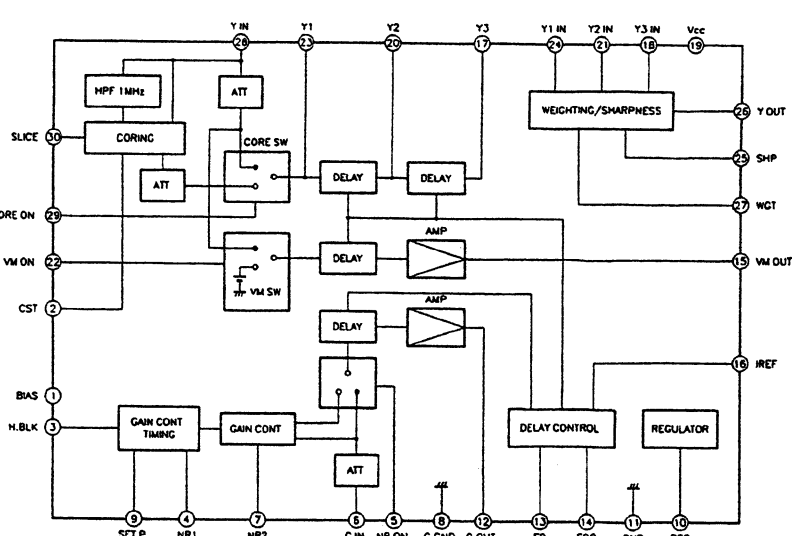
B Board IC316 TDA4660-V2



B Board IC301 CXA1545S

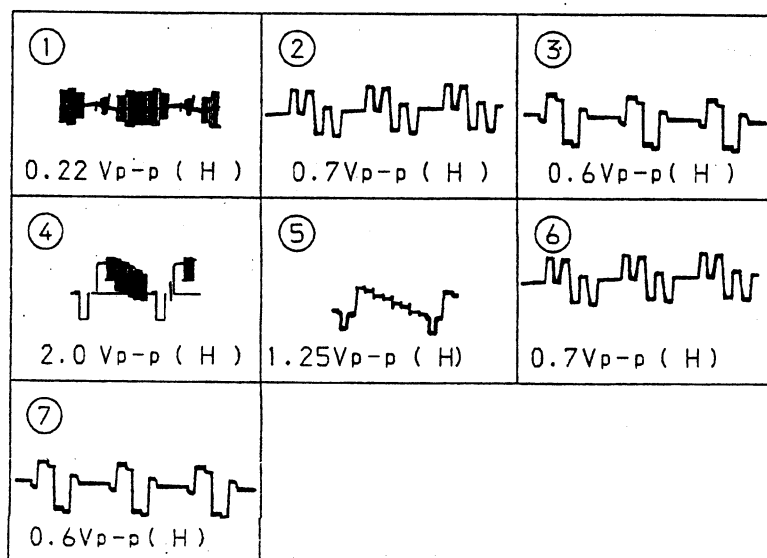


B Board IC307 CXA1387S

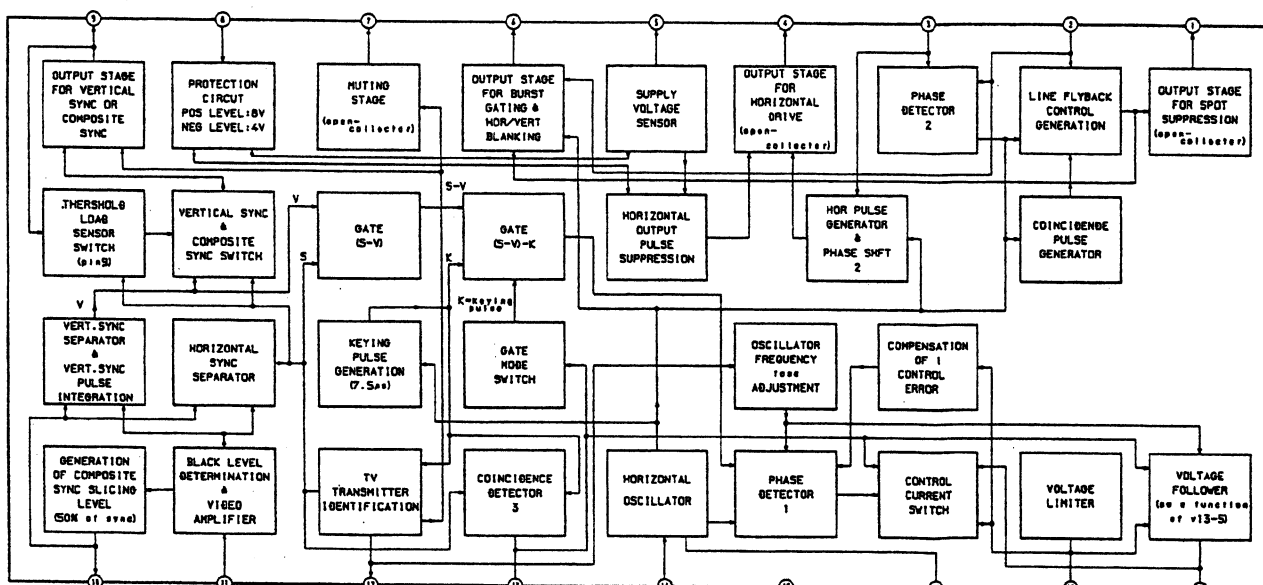


# (7) SCHEMATIC DIAGRAM OF BP BOARD

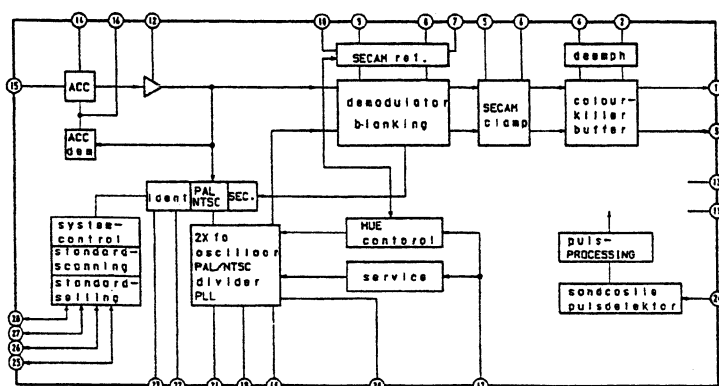
## BP BOARD WAVEFORMS



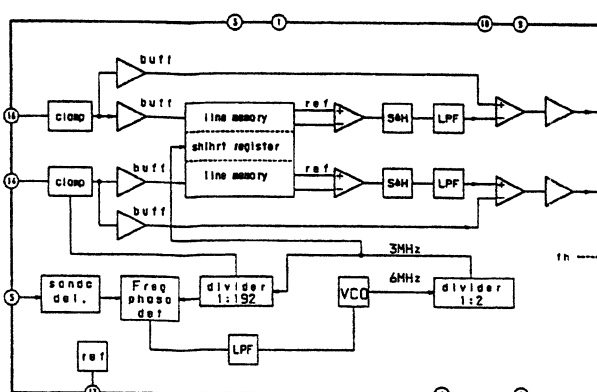
## BP Board IC3306 TDA2595-V9



## BP Board IC3302 TDA4650-V4



## BP Board IC3303 TDA4660-V2



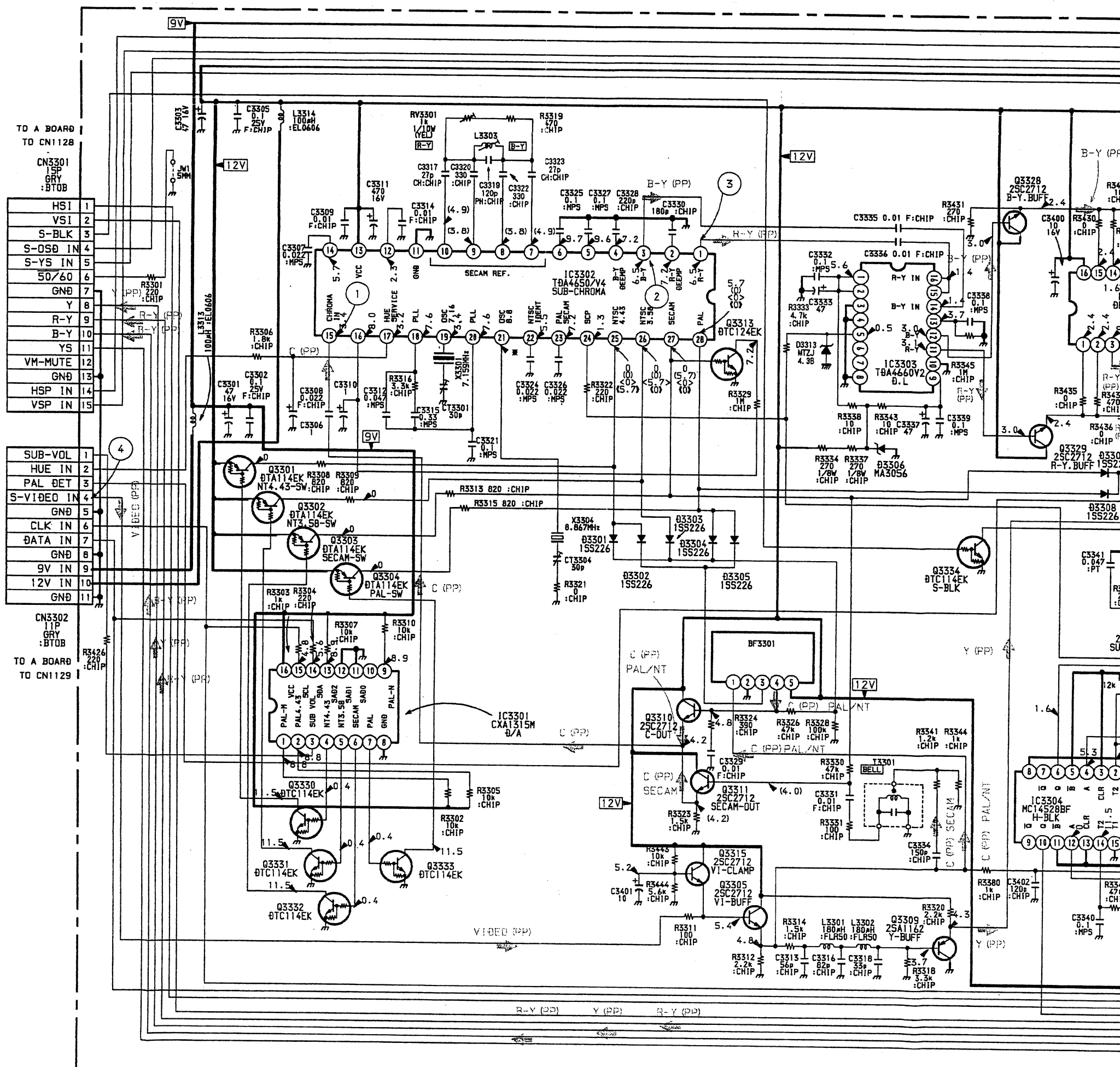
TO A BOARD  
TO CN1128  
CN3301  
15P  
GRY  
:BT0B

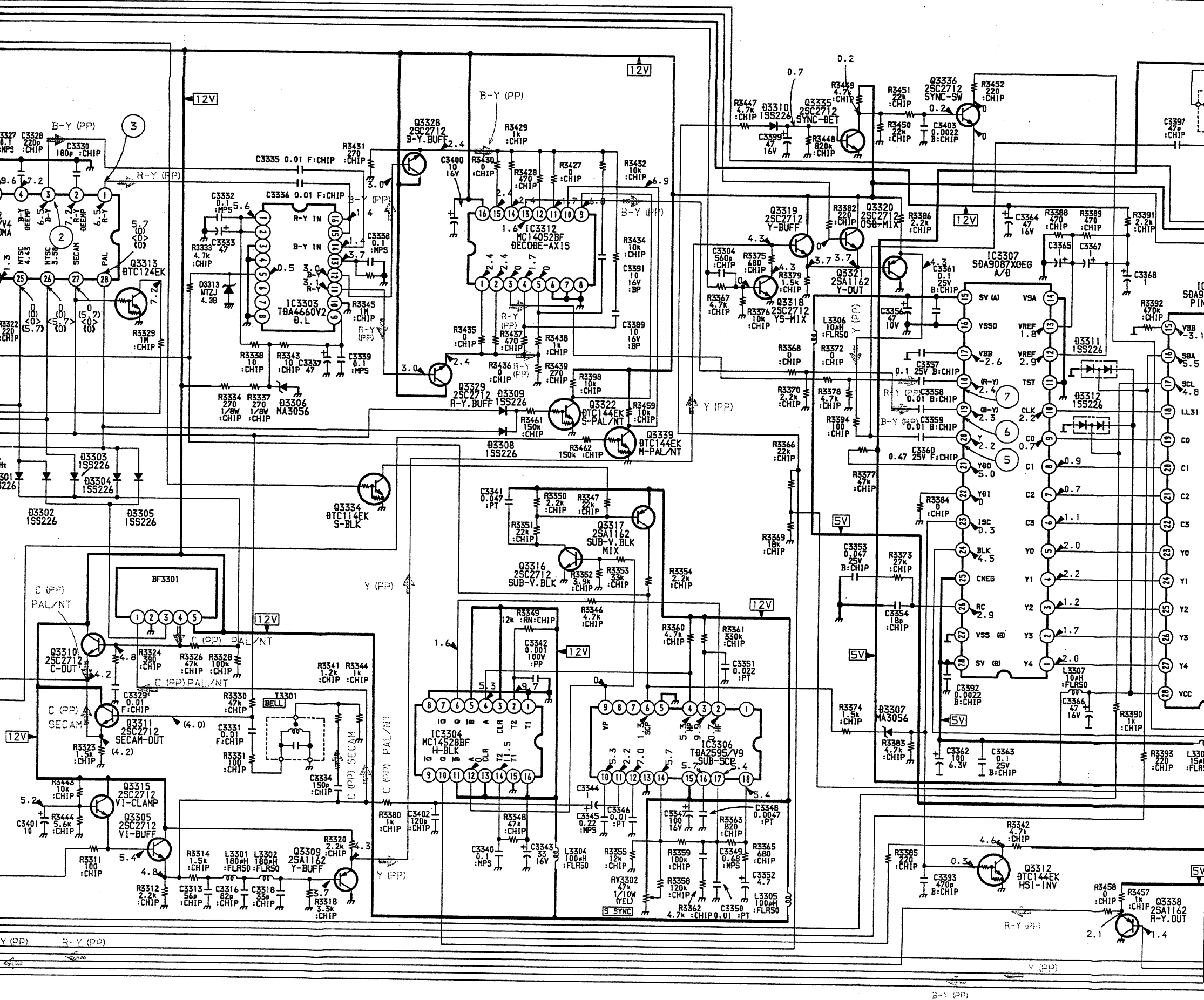
HSI	1
VSI	2
S-BLK	3
S-OSD IN	4
S-YS IN	5
50/60	6
GND	7
Y	8
R-Y	9
B-Y	10
YS	11
VM-MUTE	12
GND	13
HSP IN	14
VSP IN	15

SUB-VOL	1
HUE IN	2
PAL DET	3
S-VIDEO IN	4
GND	5
CLK IN	6
DATA IN	7
GND	8
9V IN	9
12V IN	10
GND	11

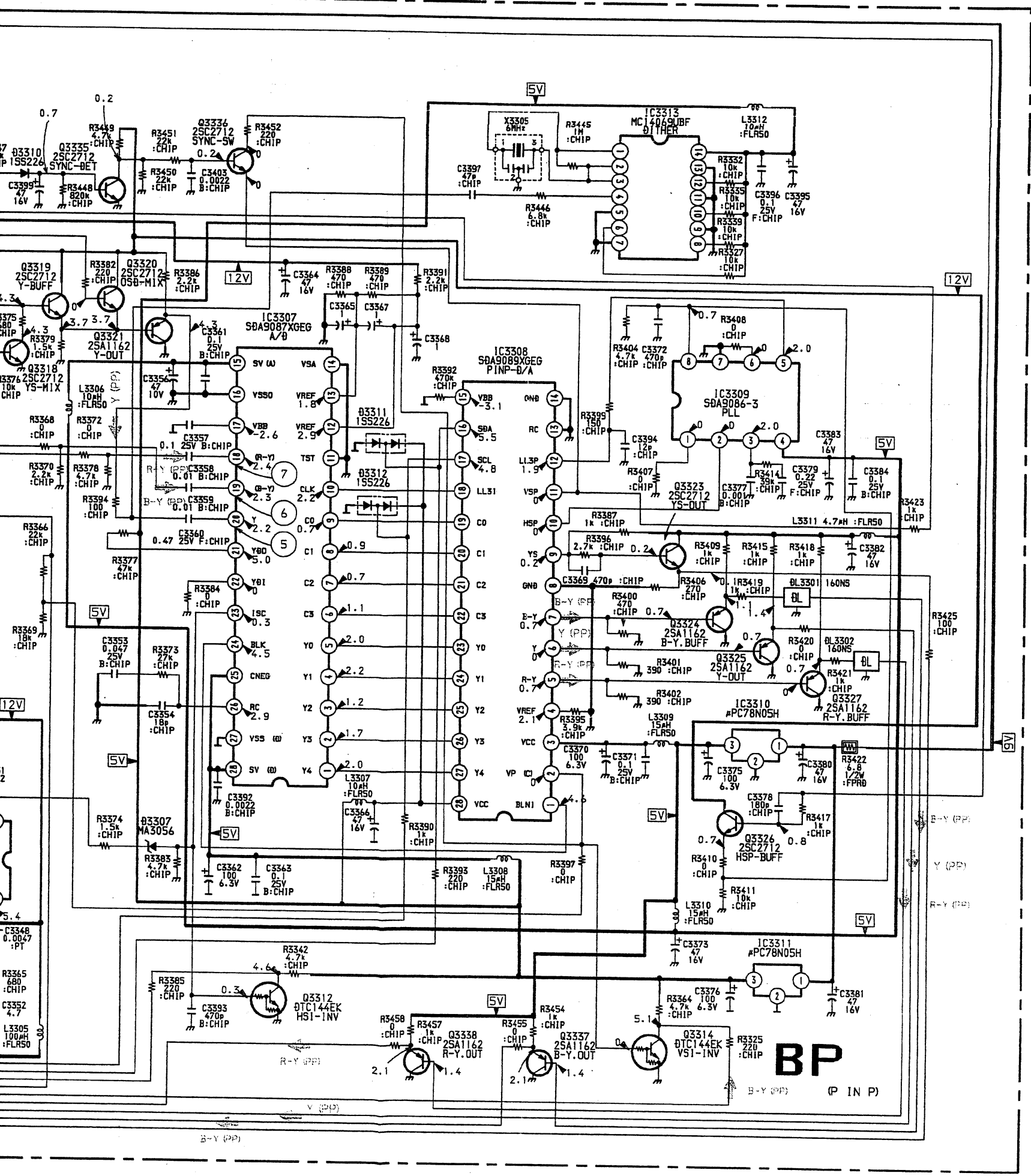
CN3302  
11P  
GRY  
:BT0B  
TO A BOARD  
TO CN1129









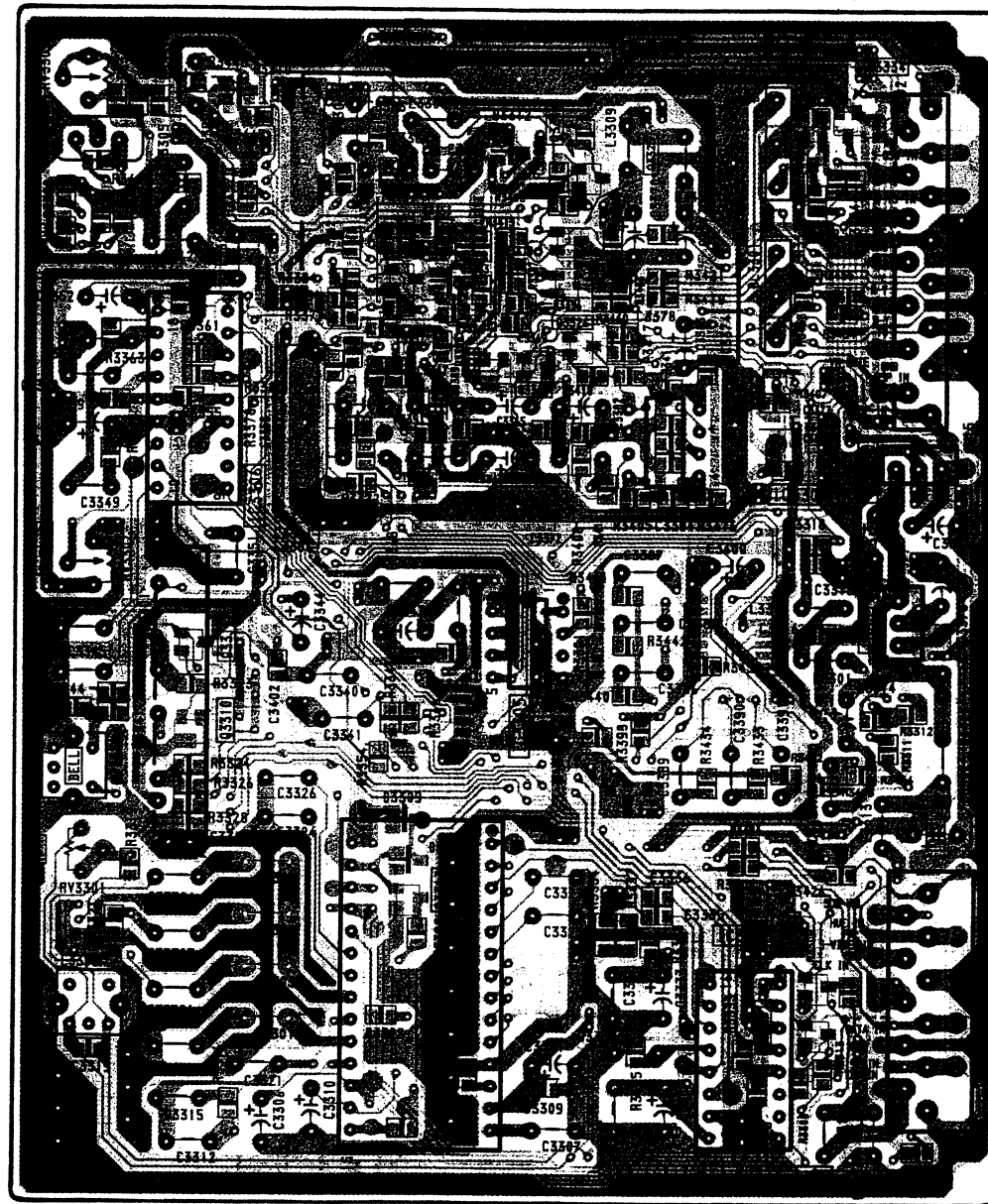


B-554289<GE.>-BP.

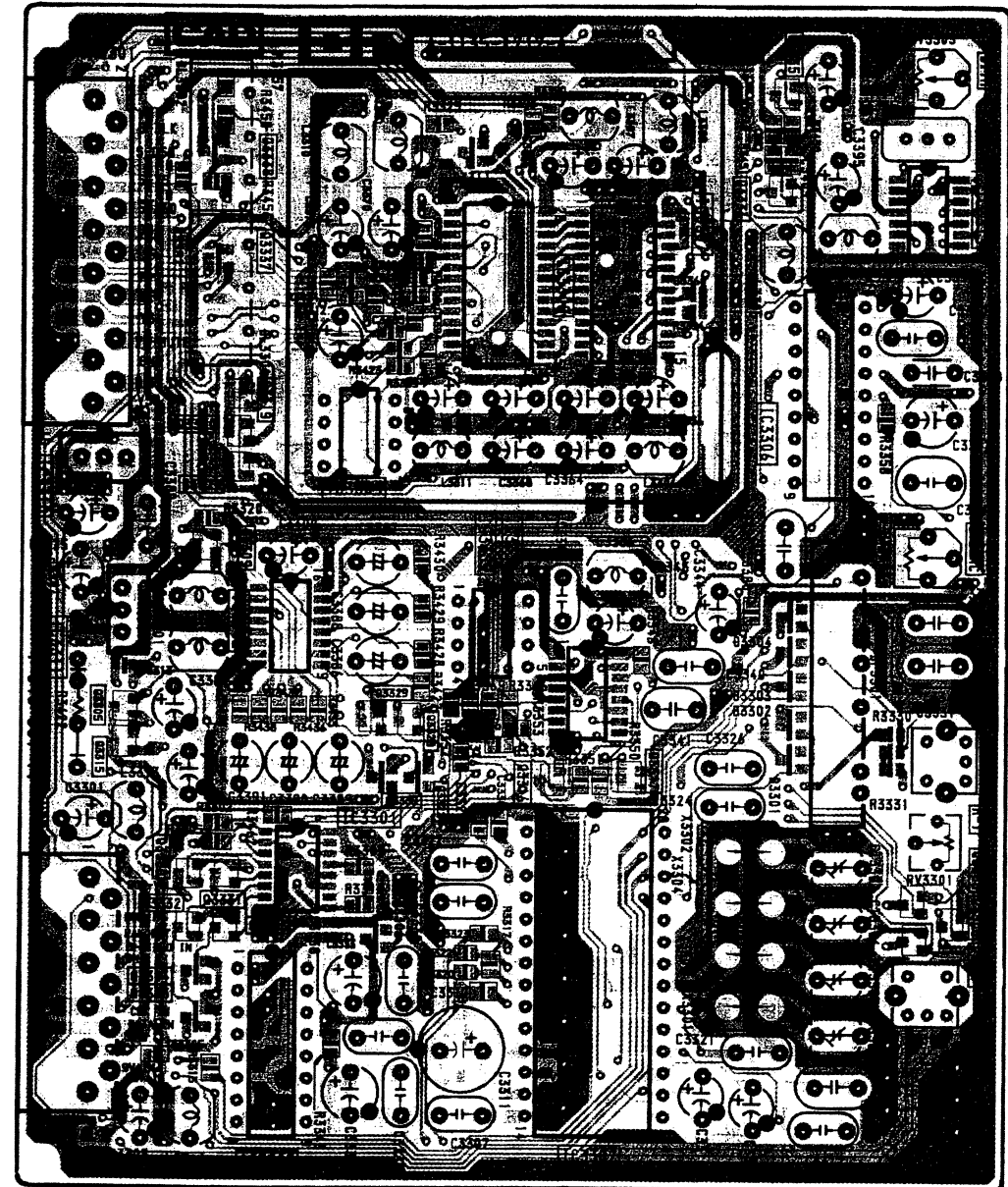
**Bp** [P IN P]

**PRINTED WIRING BOARD**

— BP Board (Conductor Side) —



— BP Board (Component Side) —



**D1** [DYNAMIC CONVERGENCE  
QUADRUPOLE]

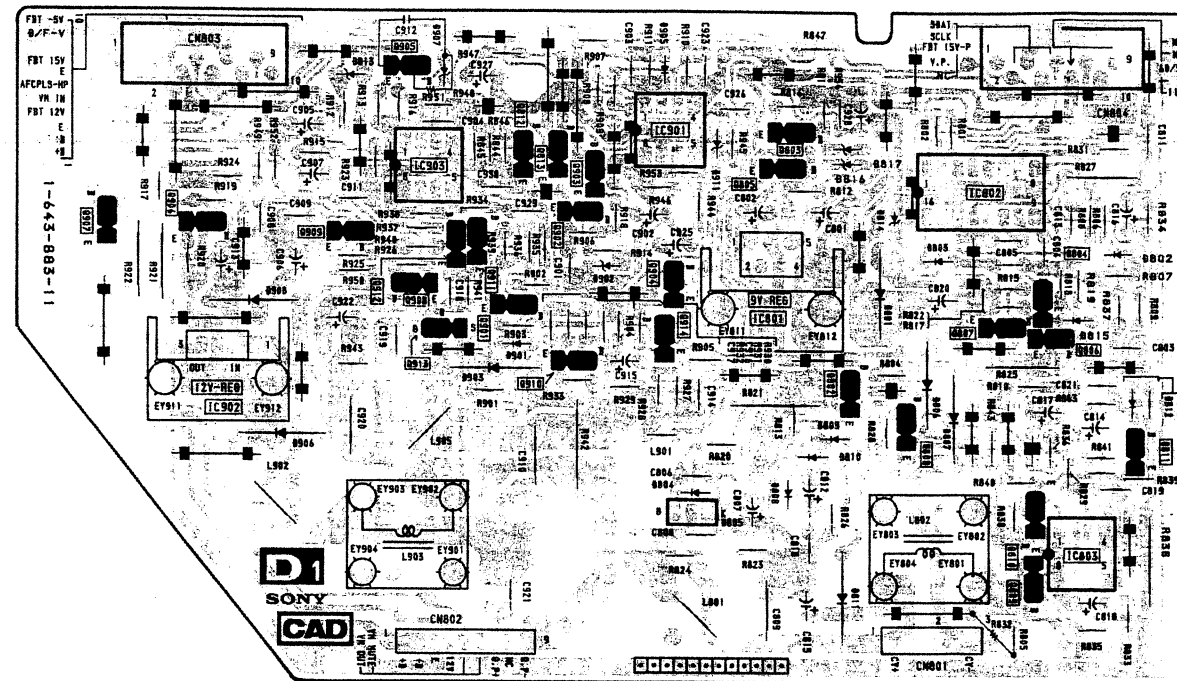
**Vc** [V PIN OUT]

**B1** [DIGITAL COMB FILTER]

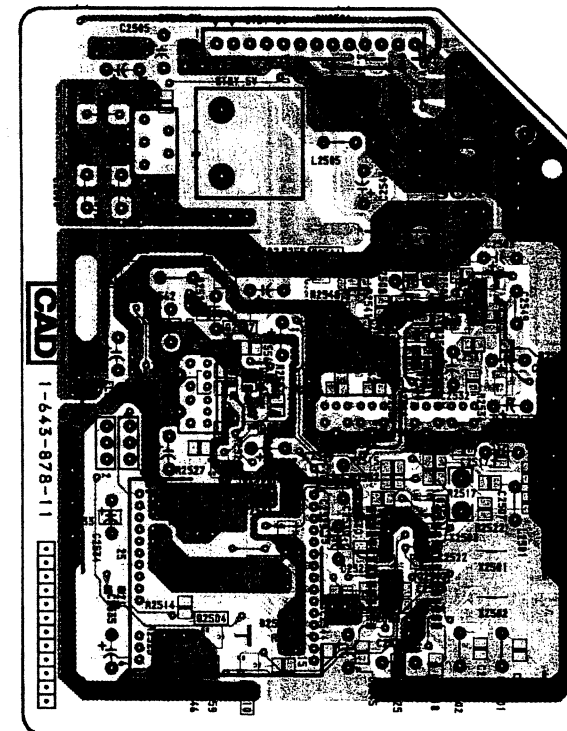
**VM** [VM OUT]

PRINTED WIRING BOARDS

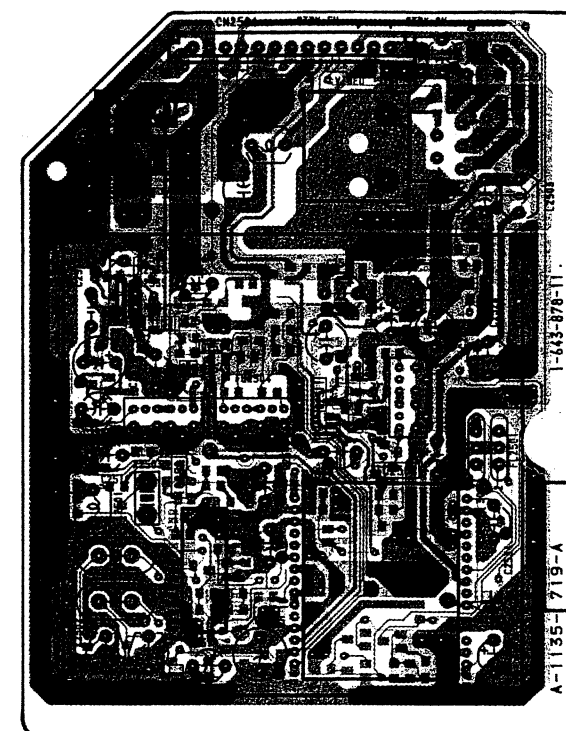
— D1 Board —



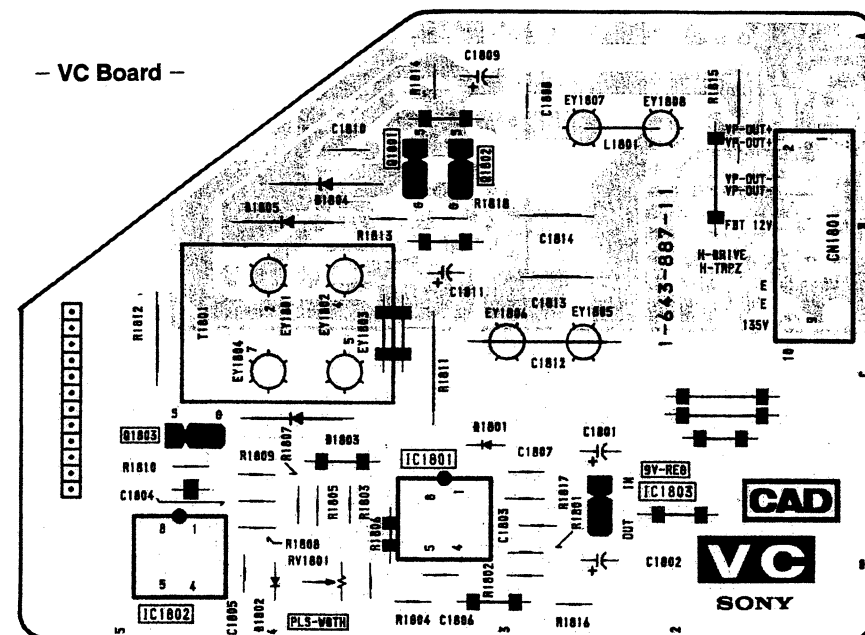
— B1 Board (Conductor Side) —



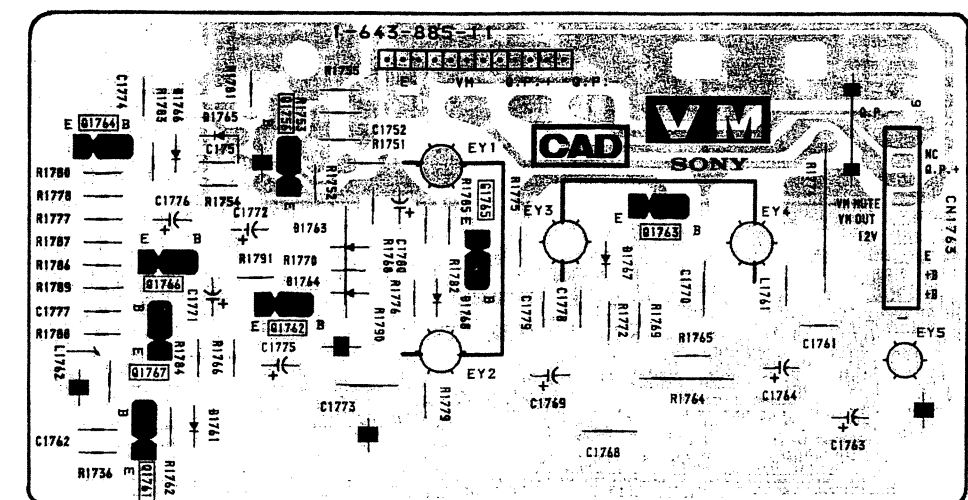
— B1 Board (Component Side) —



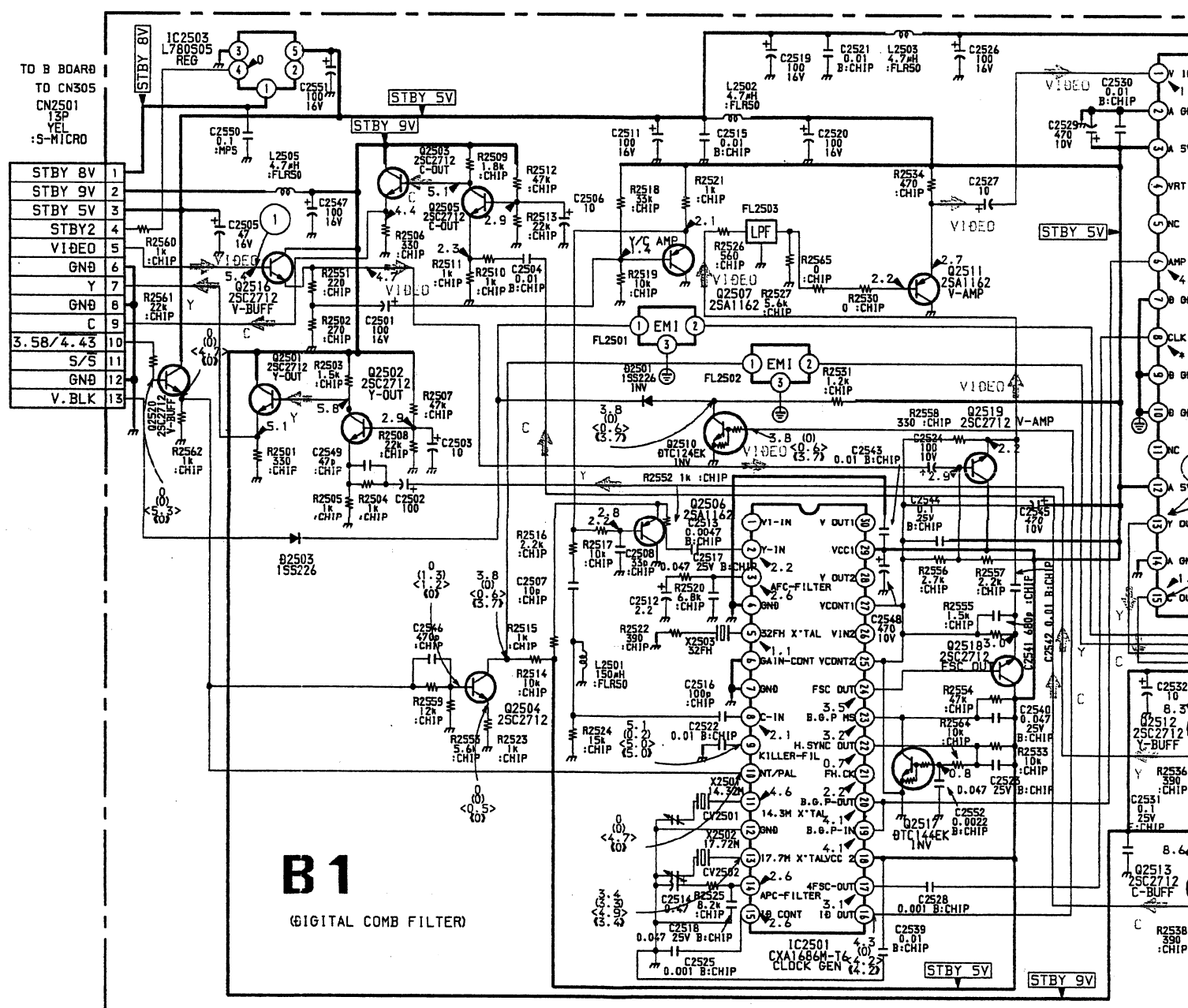
— VC Board —



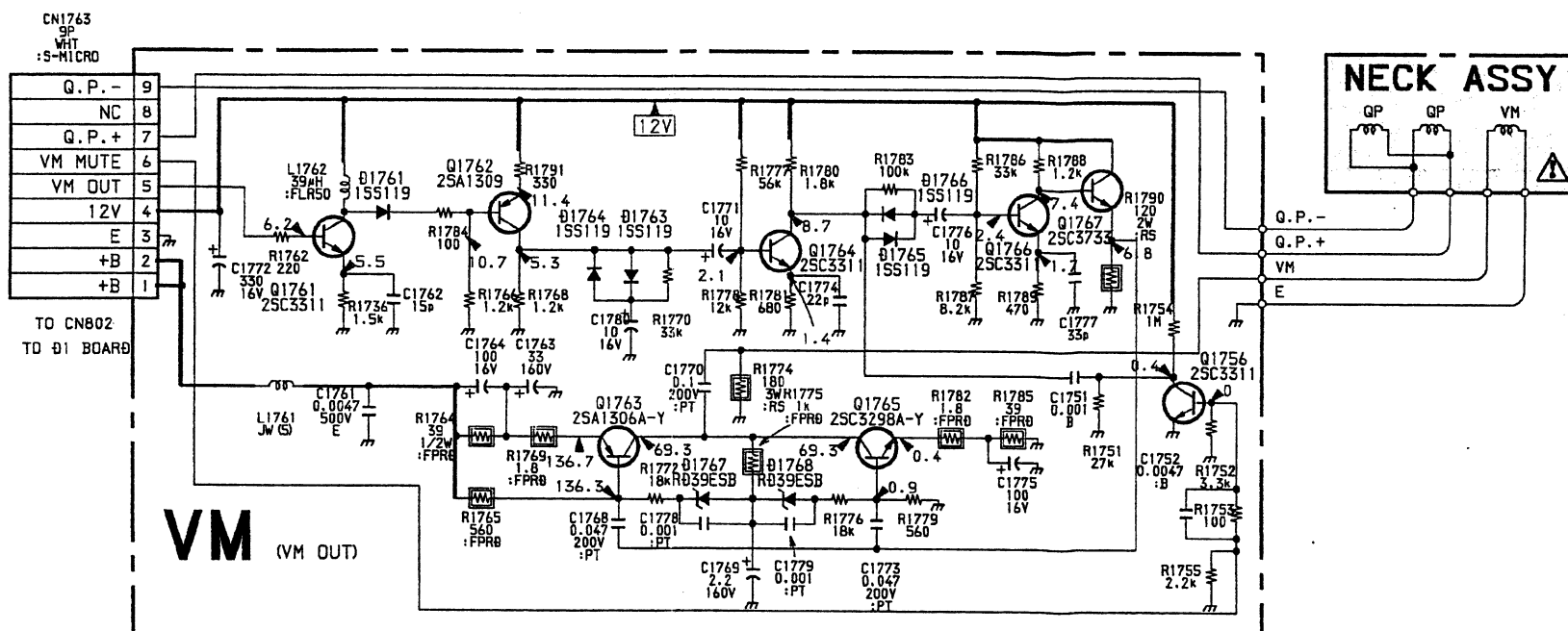
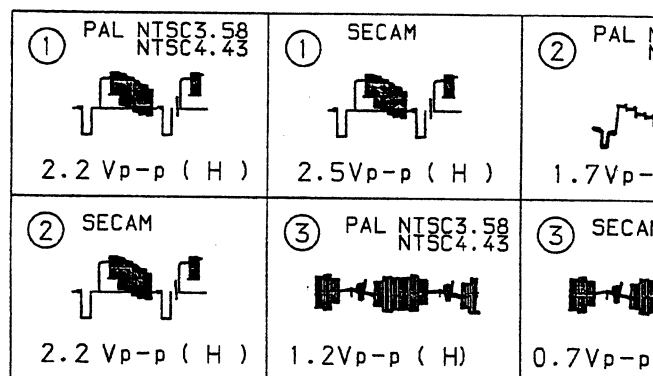
— VM Board —



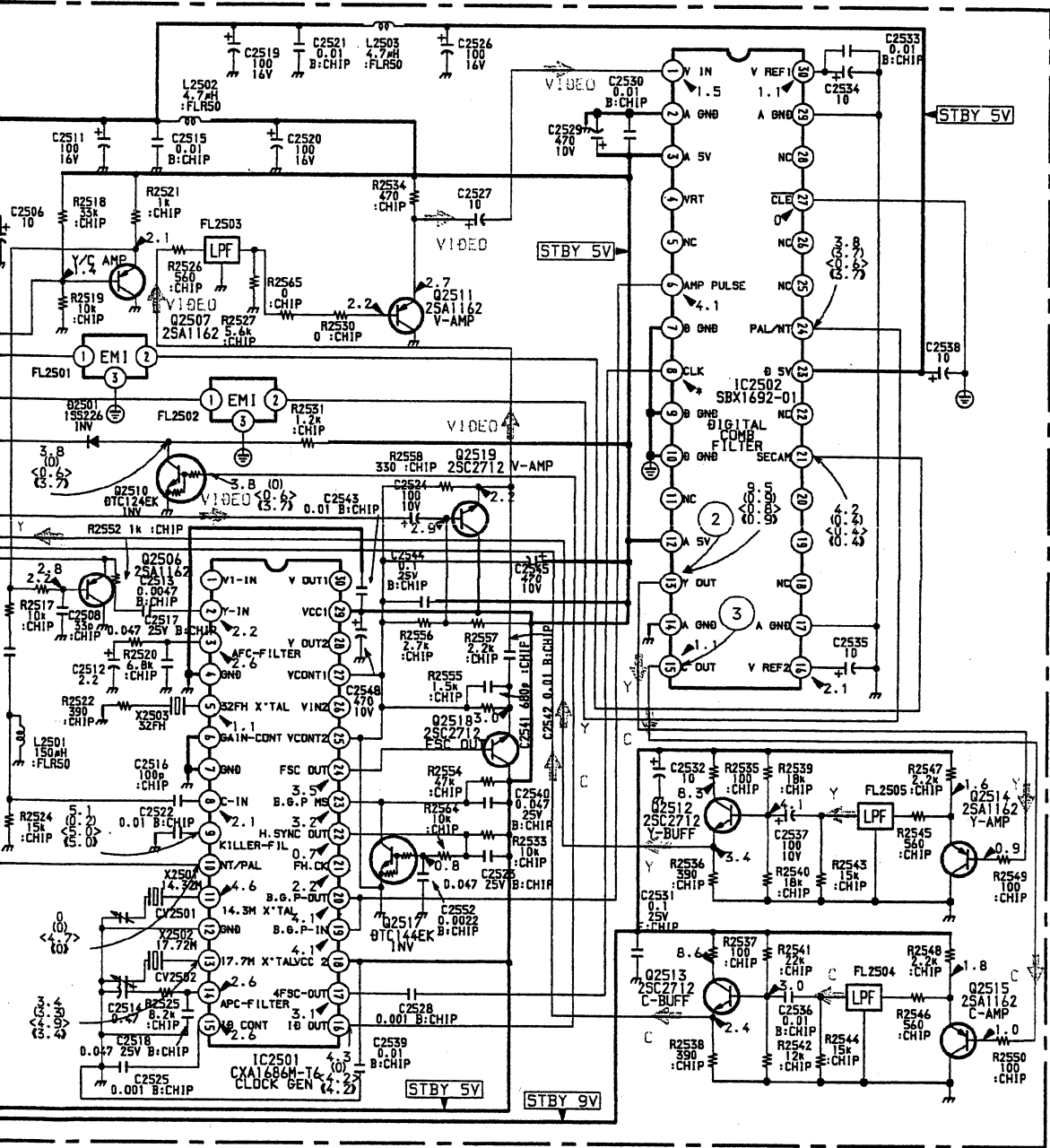
(8) SCHEMATIC DIAGRAMS OF B1, VC, VM AND D1 BOARDS



B1 BOARD WAVEFORMS

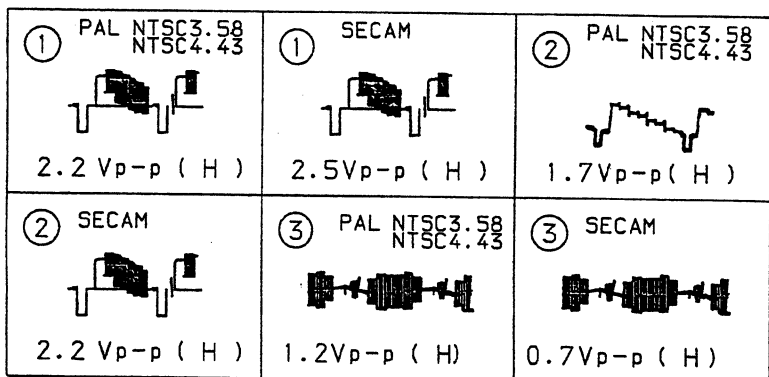


B-SS4289GE.-VM.

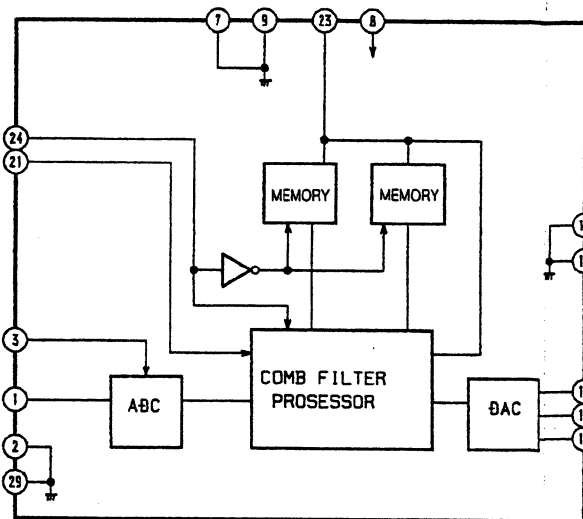


B-SS4289<GE.>-B1.

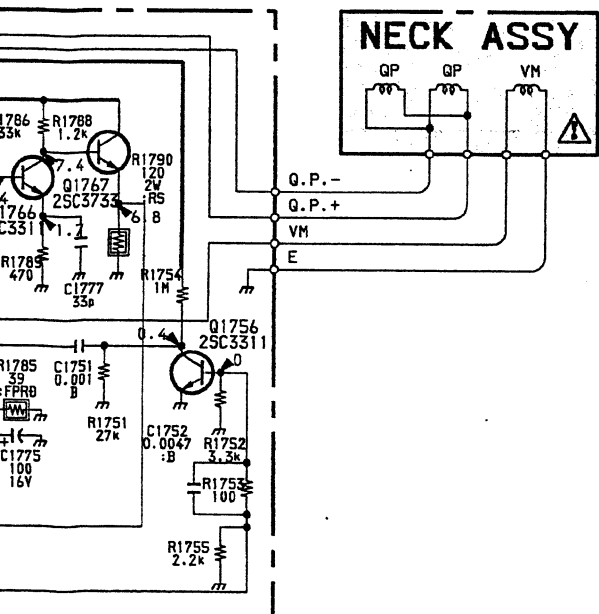
B1 BOARD WAVEFORMS



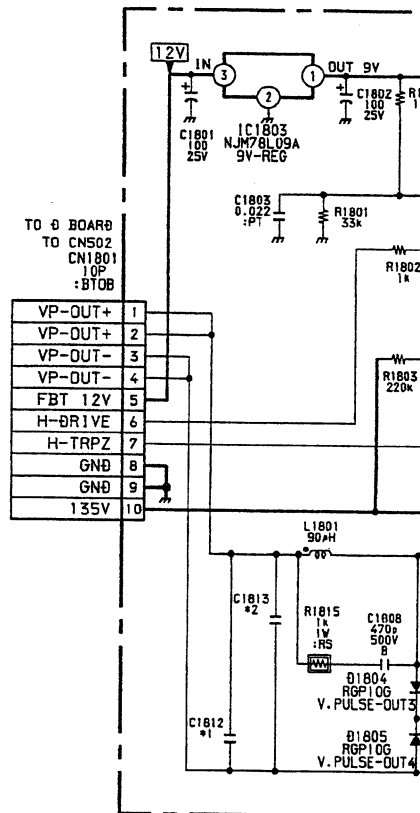
B1 Board IC2502 SBX1692-01



	34inch only	29inch only
*1 C903	0.022 :MPS	0.22 :MPS
*2 C910	0.24 200V :MPP	0.1 200V :MPP
*3 C911	1 :MPS	0.1 :MPS
*4 C912		0.0022 :MPS
*5 C914	0.033 100V :PT	0.01 100V :PT
*6 C916	0.0047 :PT	JW IS
*7 C917	0.0047 :PT	0.001 :PT
*8 C920	0.022 400V :PP	0.01 630V :PP
*9 C921	1 :MPS	JW IS
*10 C926	0.068 :MPS	0.1 :MPS
*11 C927		0.33 :MPS
*12 L902	7.5mH	3.3mH
*13 L905	3.4mH	
*14 R805	330	
*15 R817	3.9K	2.7K
*16 R825	47 1W :RS	10 1W :RS
*17 R832		150 1W :RS
*18 R908	33K	47K
*19 R910	39K	15K
*20 R915	6.8K	4.7K
*21 R919	18K	47K
*22 R922	68 1W :RS	1.5K 1W :RS
*23 R927	1.5K	10K
*24 R932	15K	
*25 R934	100K	68K
*26 R944	22K	18K
*27 R947	680 :FPRD	1.5K :FPRD
*28 R948	68K	33K
*29 R951		22K



B-SS4289<GE.>-VM.



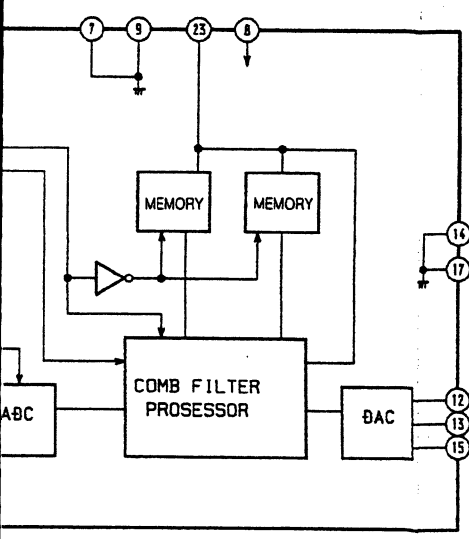
	34inch only
*1 C1812	0.24 200V
*2 C1813	
*3 R1806	8.2K
*4 R1816	47K



5V

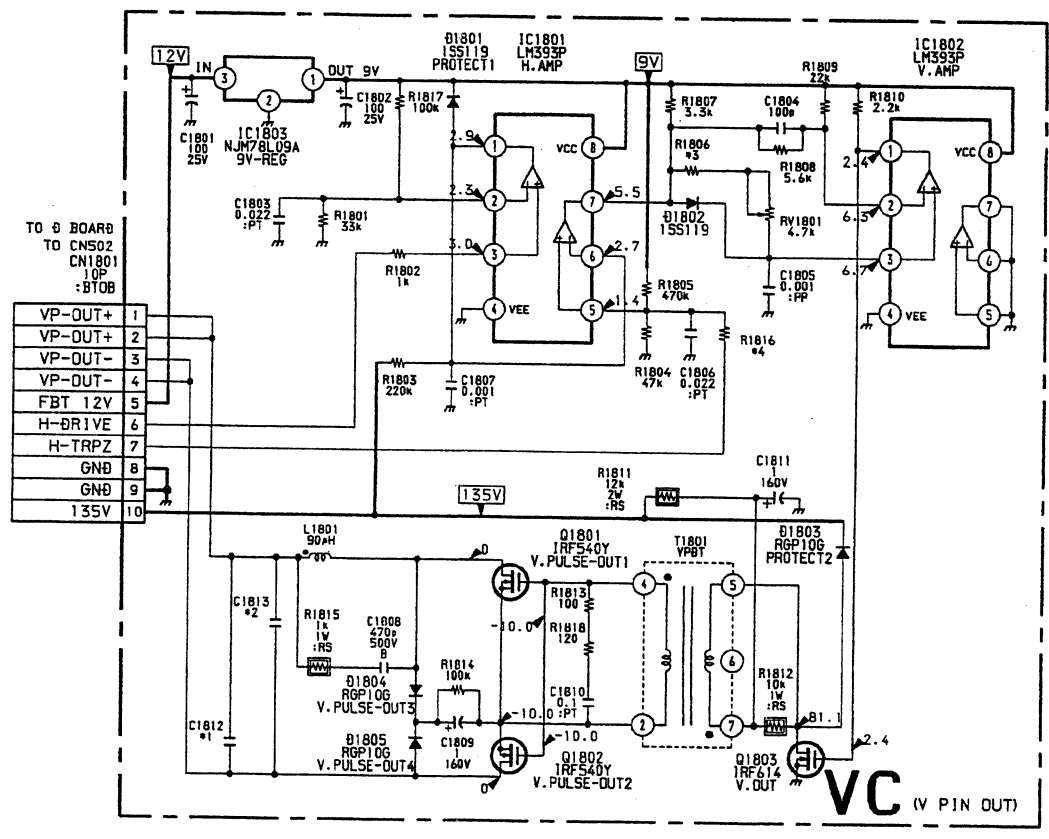
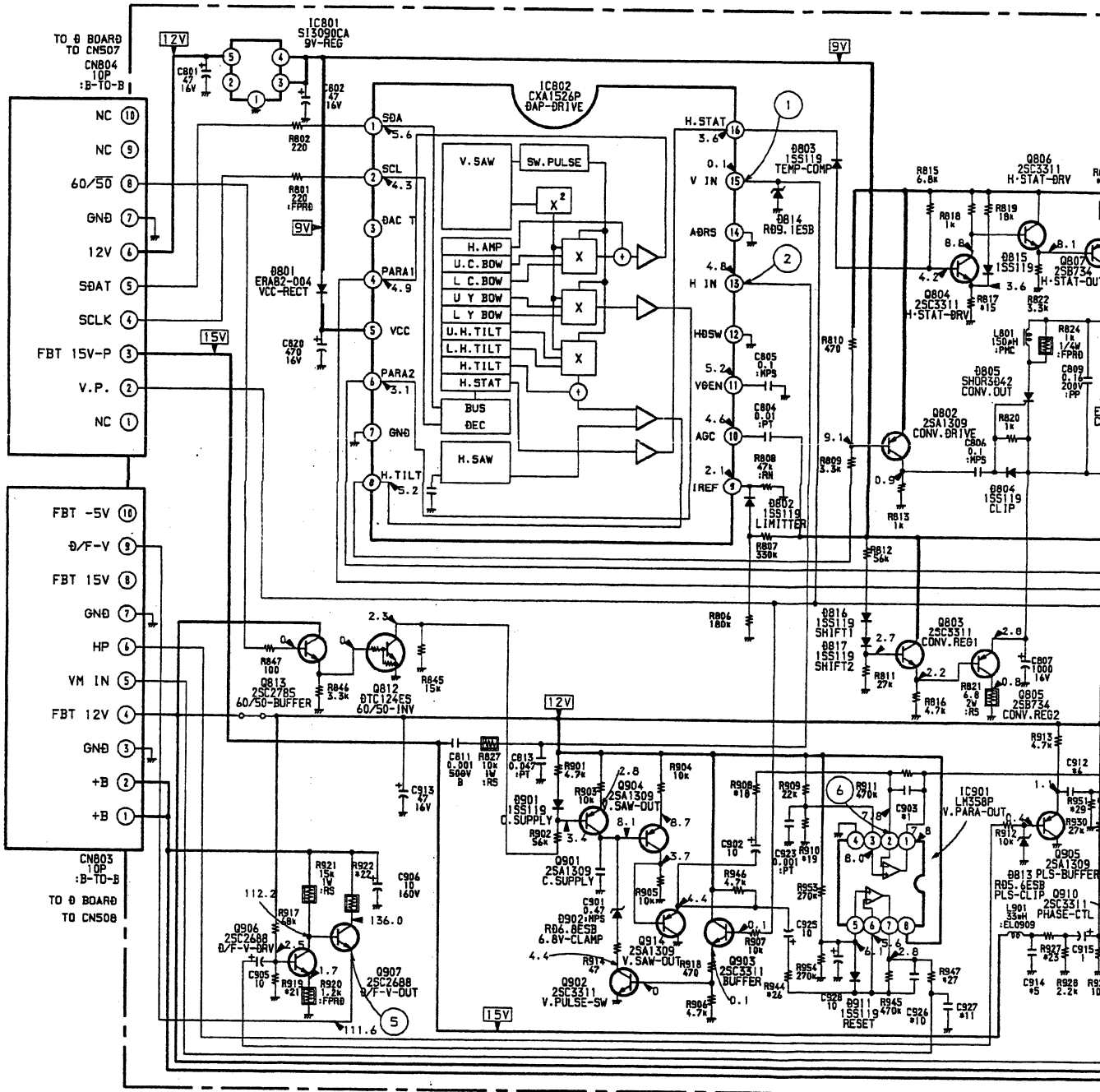
2514  
A1162  
-AMP  
0.9  
W  
R2549  
100  
:CHIP  
8  
2515  
C  
A1162  
-AMP  
1.0  
W  
R2550  
100  
:CHIP  
->-B1.

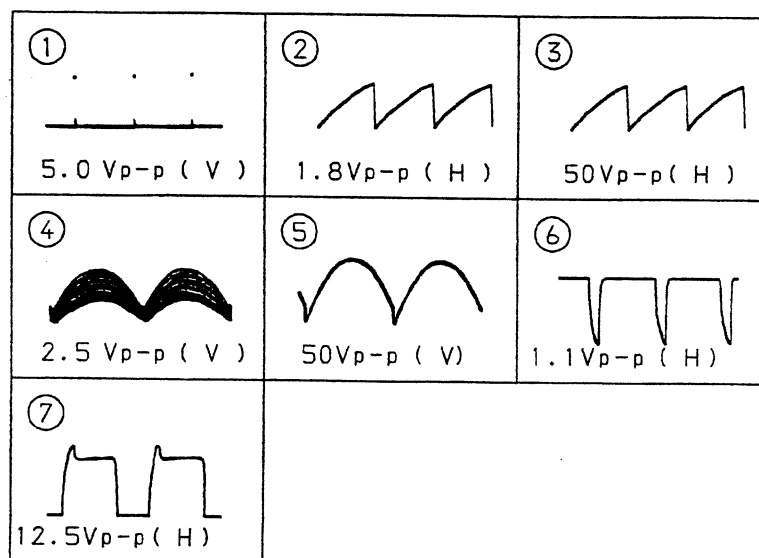
IC2502 SBX1692-01



01 BOARD \*MARK LIST

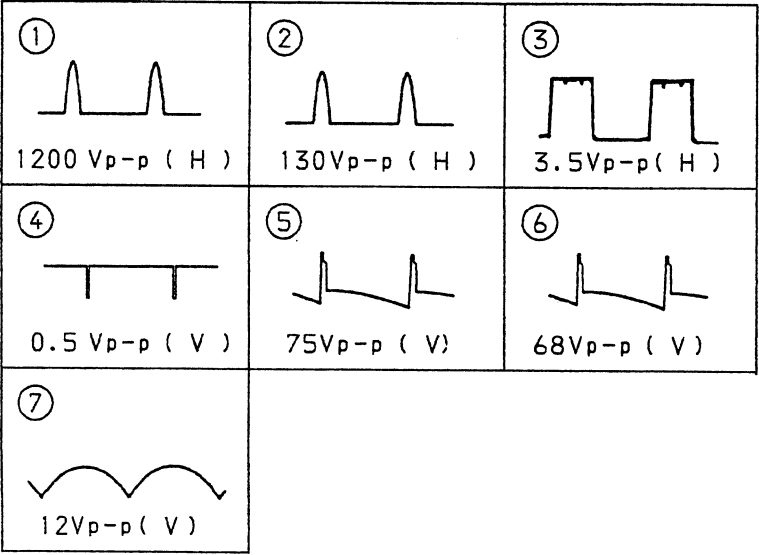
	34inch only	29inch only
*1 C903	0.022 :MPS	0.22 :MPS
*2 C910	0.24 200V :MPP	0.1 200V :MPP
*3 C911	1 :MPS	0.1 :MPS
*4 C912		0.0022 :MPS
*5 C914	0.033 100V :PT	0.01 100V :PT
*6 C916	0.0047 :PT	JW 5
*7 C917	0.0047 :PT	0.001 :PT
*8 C920	0.022 400V :PP	0.01 630V :PP
*9 C921	1 :MPS	JW 5
*10 C926	0.048 :MPS	0.1 :MPS
*11 C927		0.33 :MPS
*12 L902	7.5mH	3.3mH
*13 L903	3.4mH	
*14 R805	330	
*15 R817	3.9K	2.7K
*16 R825	47 1W :RS	10 1W :RS
*17 R832		150 1W :RS
*18 R908	33K	47K
*19 R910	39K	15K
*20 R915	6.8K	4.7K
*21 R919	18K	47K
*22 R922	68 1W :RS	1.5K 1W :RS
*23 R927	1.5K	10K
*24 R932	15K	
*25 R934	100K	68K
*26 R944	22K	18K
*27 R947	680 :FPRD	1.5K :FPRD
*28 R948	68K	33K
*29 R951		22K



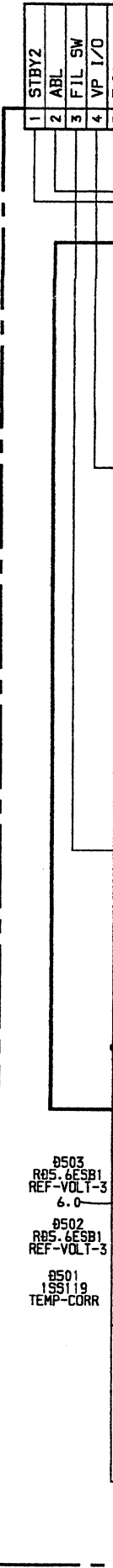
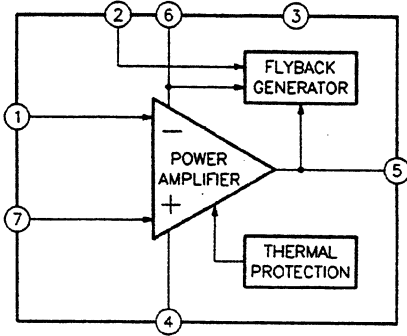


(9) SCHEMATIC DIAGRAM OF D BOARD

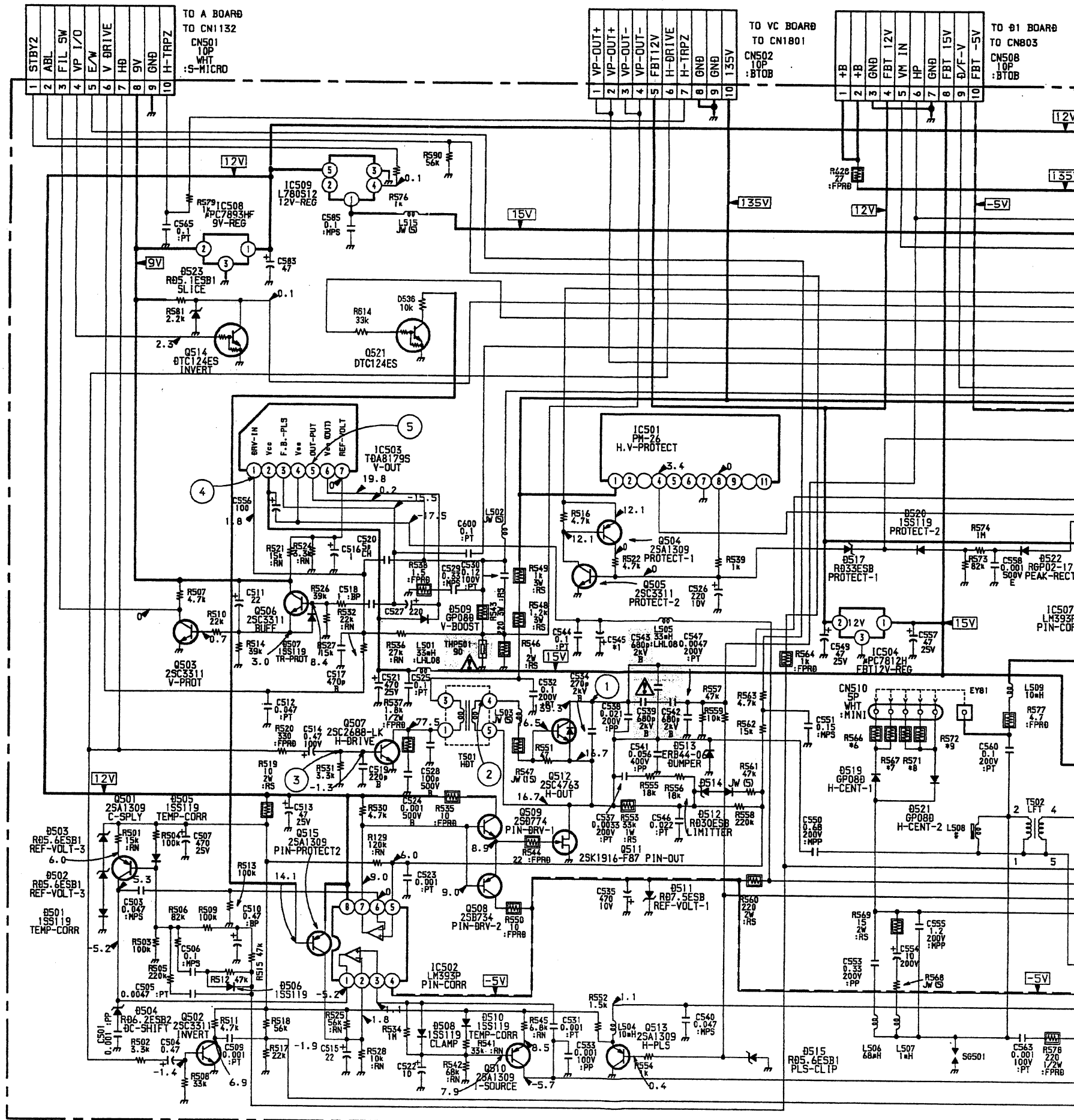
D BOARD WAVEFORMS

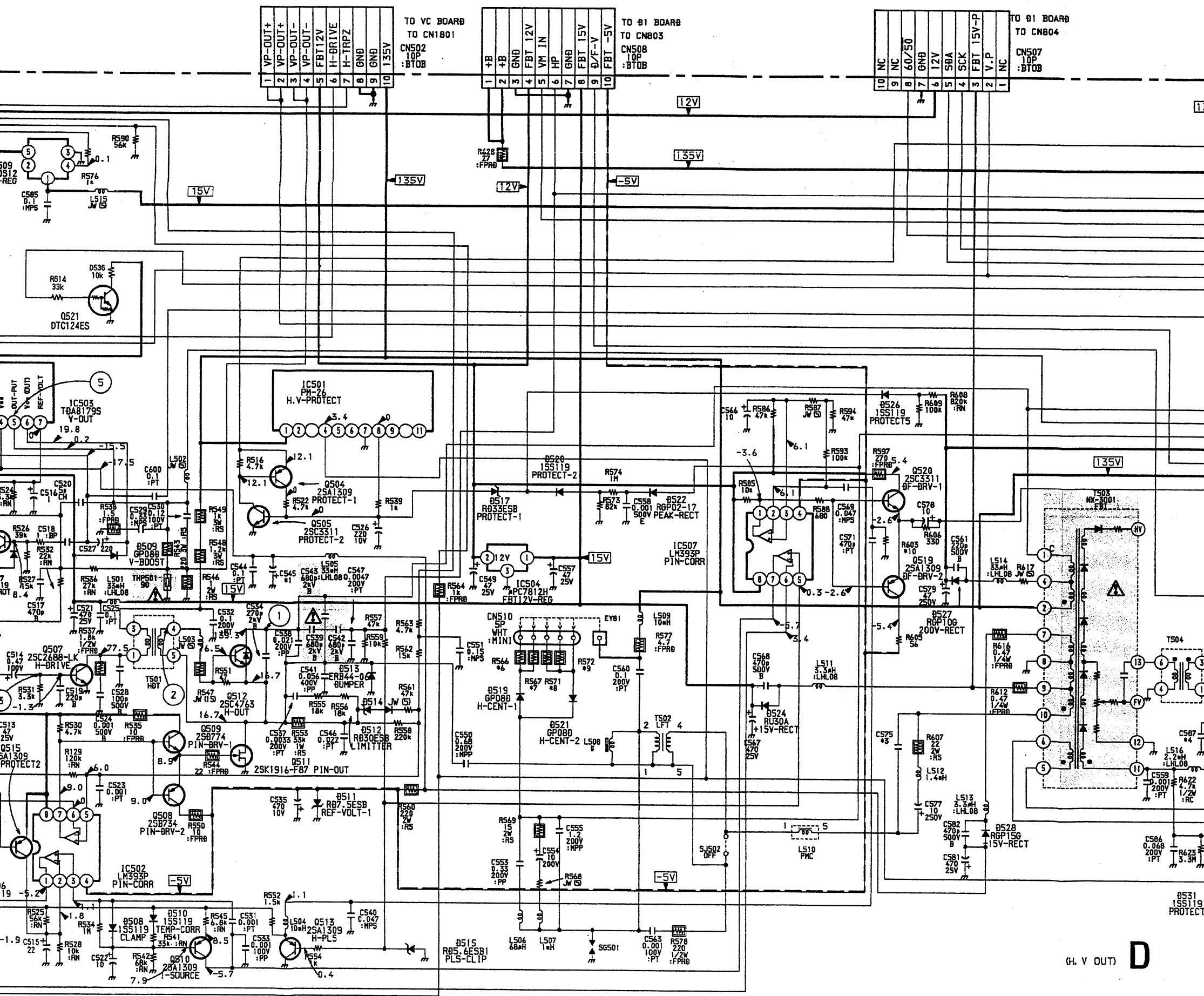


D Board IC503 TDA8179S





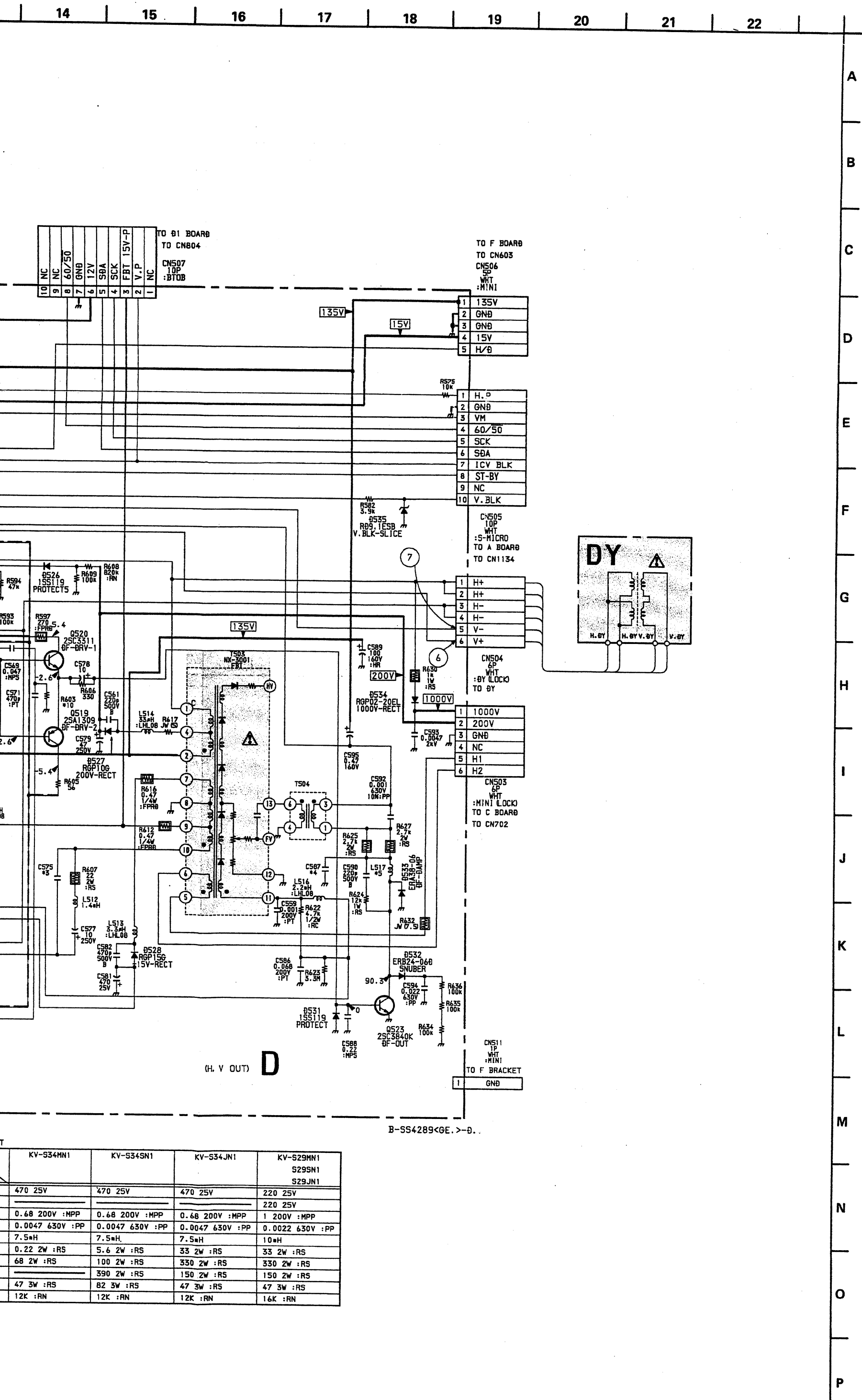




(H. V OUT) **D**

0 BOARD  
\*MARK LIST

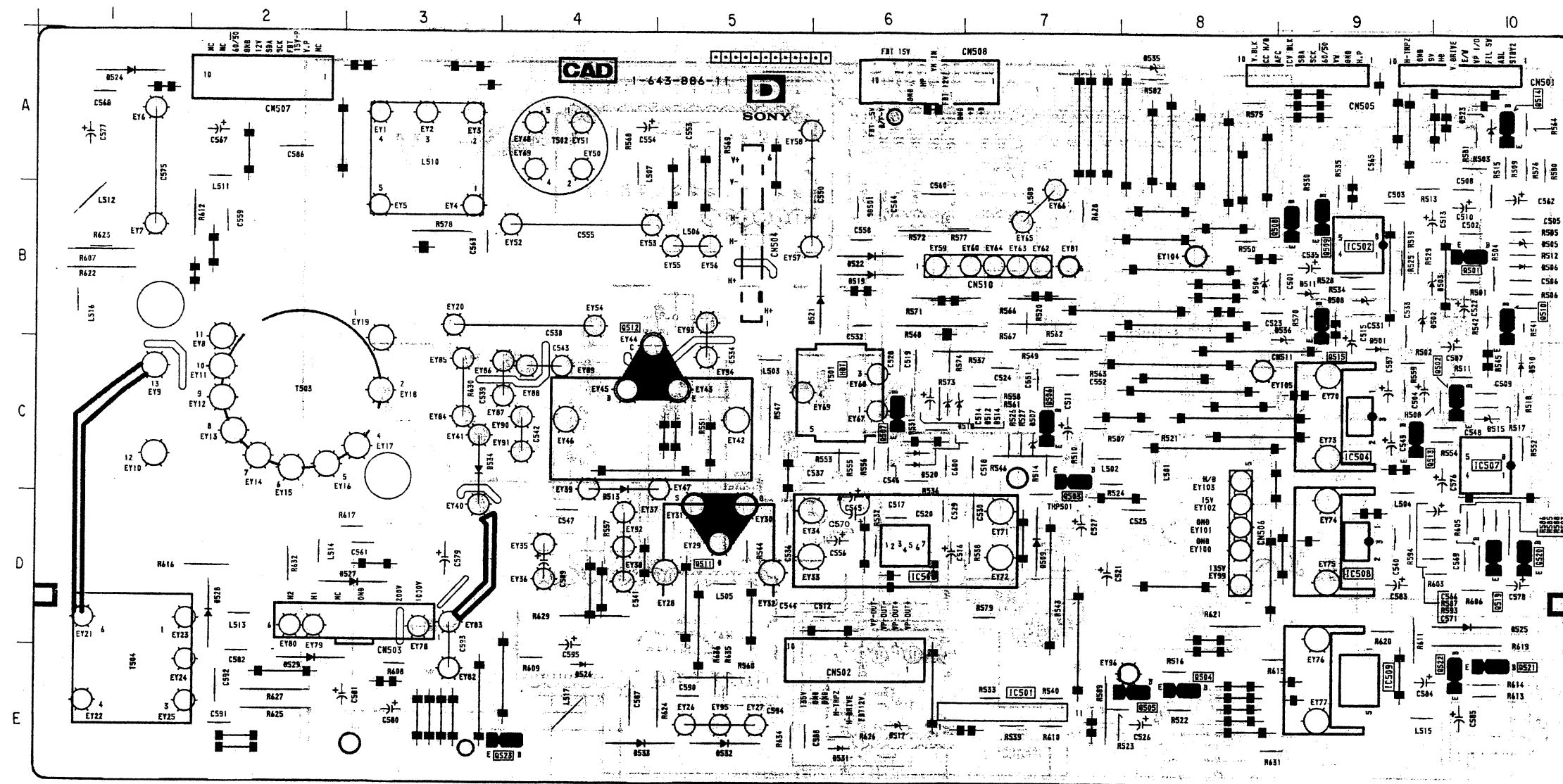
	KV-S34MN1	KV-S34SN1	KV-S34JN1	KV-S29MN1 S29SN1 S29JN1
*1 C545	470 25V	470 25V	470 25V	220 25V
*2 C570				220 25V
*3 C575	0.68 200V :MPP	0.68 200V :MPP	0.68 200V :MPP	1 200V :MPP
*4 C587	0.0047 630V :PP	0.0047 630V :PP	0.0047 630V :PP	0.0022 630V :PP
*5 L517	7.5mH	7.5mH	7.5mH	10mH
*6 R566	0.22 2W :RS	5.6 2W :RS	33 2W :RS	33 2W :RS
*7 R567	68 2W :RS	100 2W :RS	330 2W :RS	330 2W :RS
*8 R571		390 2W :RS	150 2W :RS	150 2W :RS
*9 R572	47 3W :RS	82 3W :RS	47 3W :RS	47 3W :RS
*10 R603	12K :RN	12K :RN	12K :RN	16K :RN



D  
[H/V OUT]

## PRINTED WIRING BOARD

- D Board -



## D Board

IC		DIODE	
IC501	E-7	D501	C-9
IC502	B-9	D502	B-9
IC503	D-6	D503	B-9
IC504	C-9	D504	B-8
IC507	C-10	D505	B-10
IC508	D-9	D506	B-10
IC509	E-9	D507	C-7
		D508	B-9
		D509	D-7
		D510	C-10
		D511	B-9
		D512	C-6
		D513	C-4
		D515	C-10
		D517	E-6
		D519	B-6
		D520	C-6
		D521	B-6
		D522	B-6
		D523	A-10
		D524	A-1
		D526	E-4
		D527	D-3
		D528	D-2
		D529	E-2
		D531	E-6
		D532	E-5
		D533	E-4
		D534	C-3
		D535	A-8
		D536	B-9

## TRANSISTOR

Q501	B-10
Q502	C-10
Q503	C-7
Q504	E-8
Q505	E-8
Q506	C-7
Q507	C-6
Q508	B-9
Q509	B-9
Q510	B-10
Q511	D-5
Q512	C-4
Q513	C-9
Q514	A-10
Q515	B-9
Q519	D-10
Q520	D-10
Q523	E-4

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----

## A



D

## E

**F**

## G

H

1

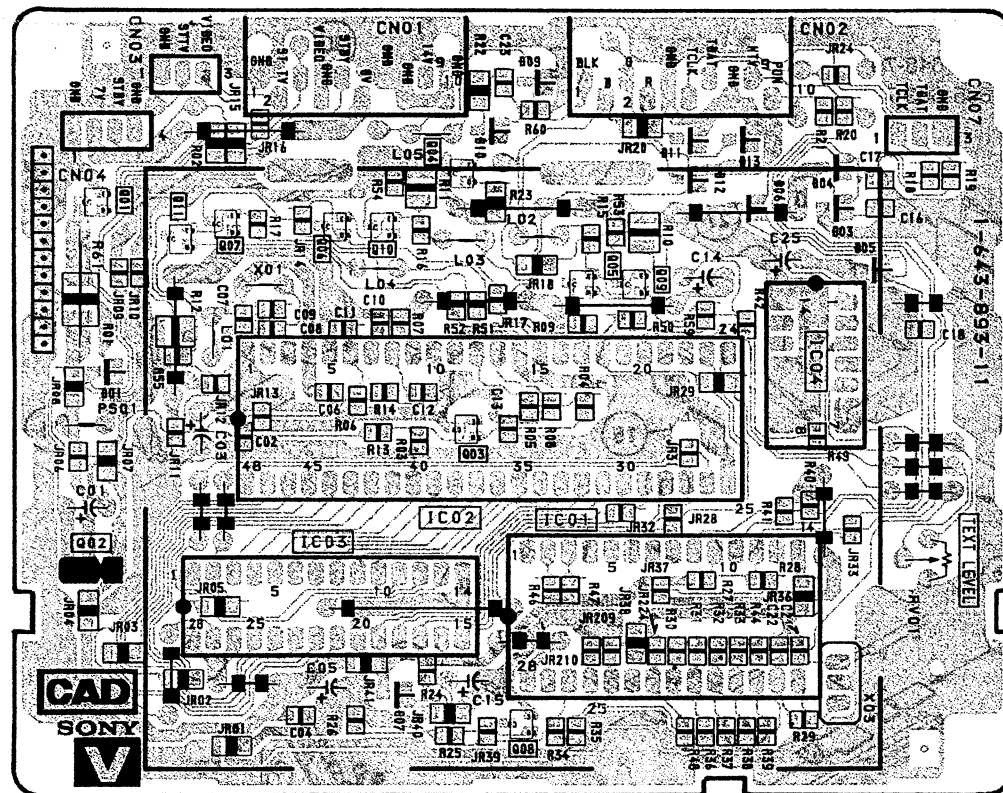
**J**

**KV-S29JN1/S29MN1/S29SN1/S34JN1/S34MN1/S34SN1**  
RM-821

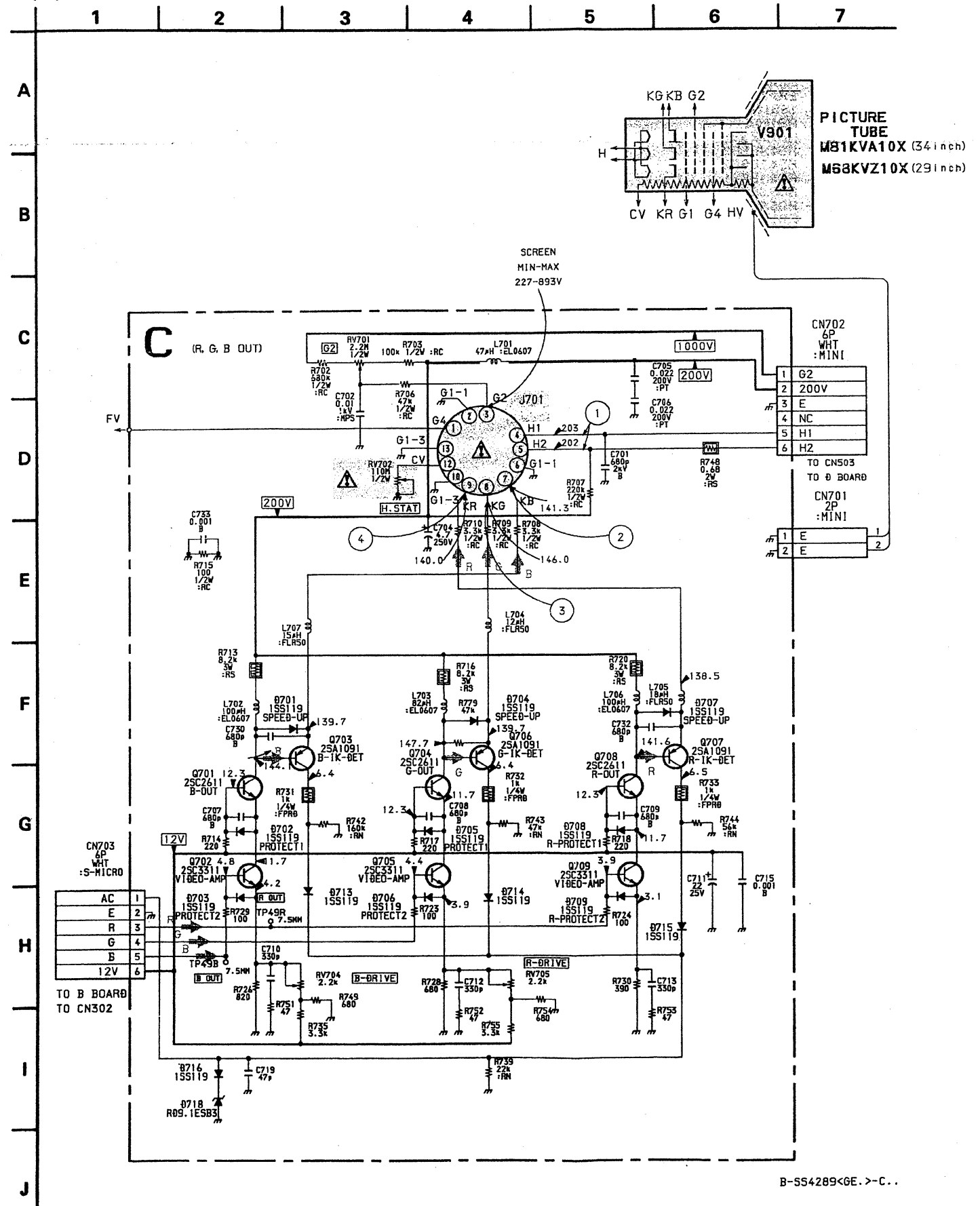
**V** [TELETEXT]

## PRINTED WIRING BOARD

— V Board —



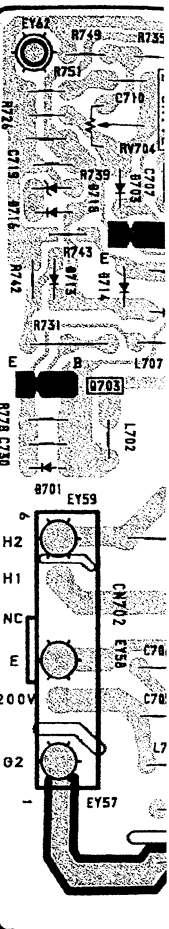
**(11) SCHEMATIC DIAGRAM OF C BOARD**




**C** [R.G.B. OU


## PRINTED WIRE

**- C Board -**



**C BOARD WA**

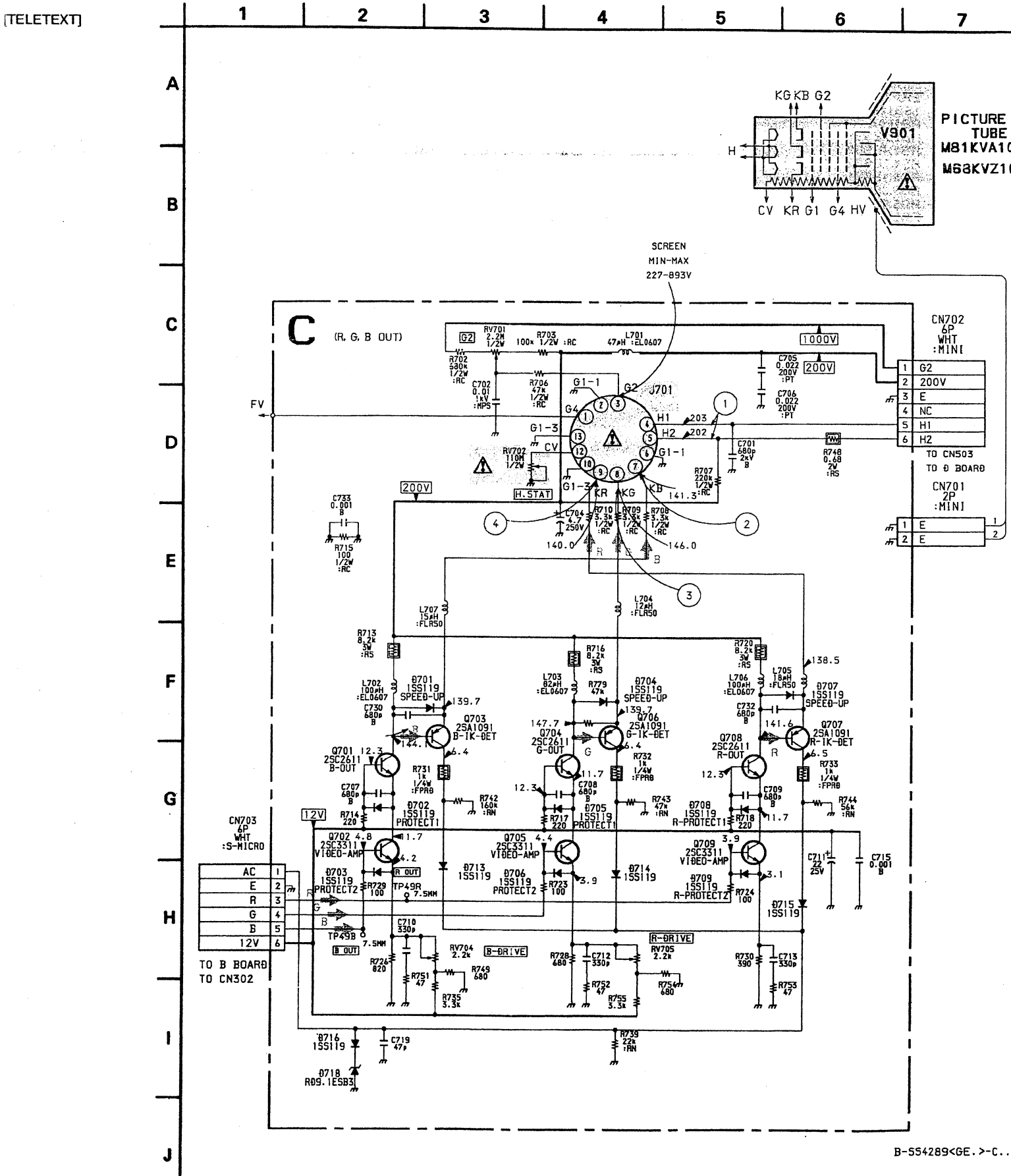
①   
41.0 V p-p

④   
130 V p-p



[TELETEXT]

(11) SCHEMATIC DIAGRAM OF C BOARD

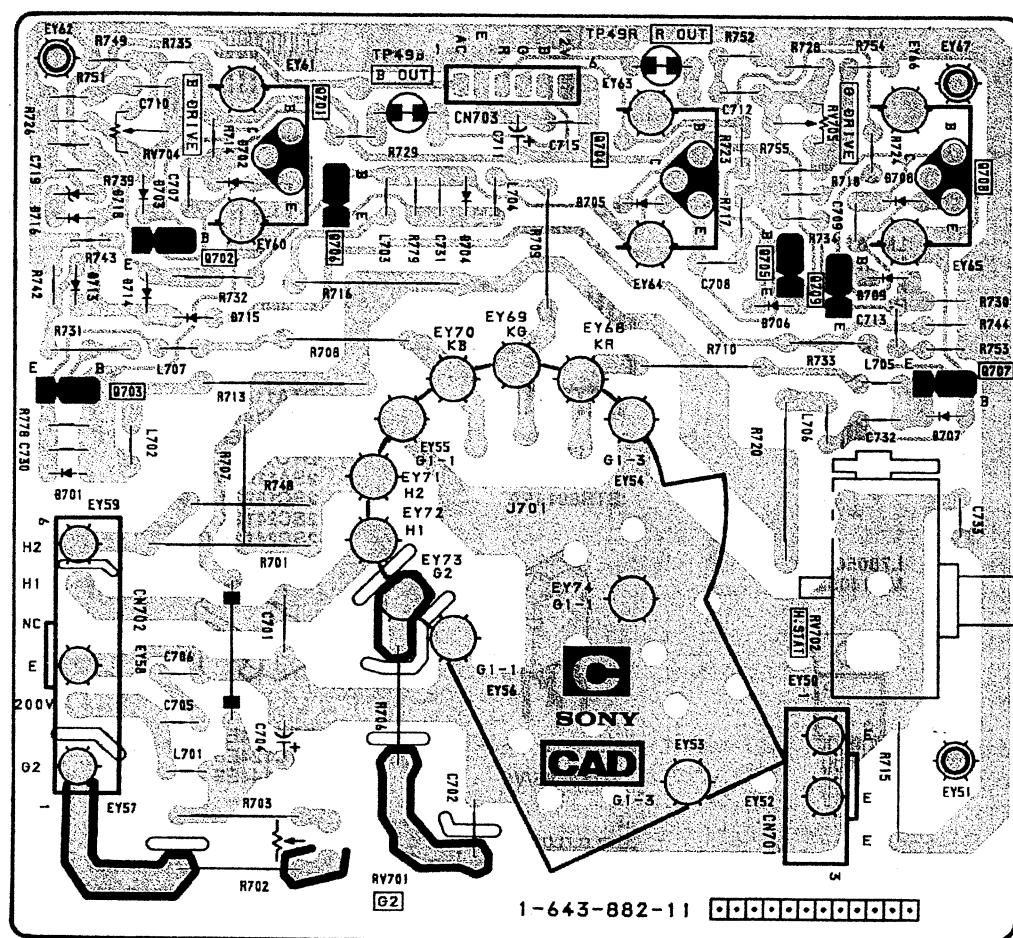


C

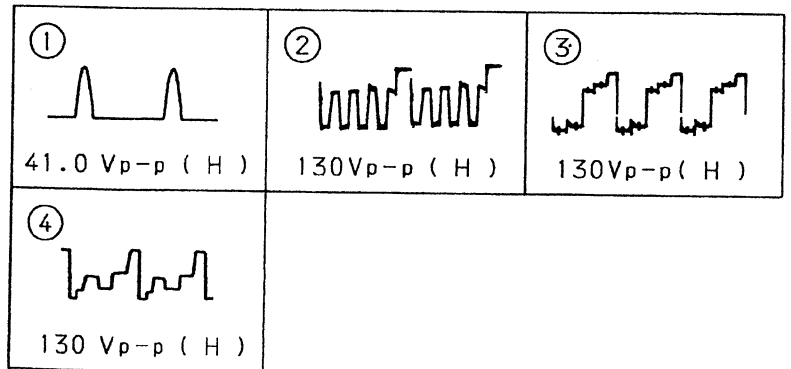
[R.G.B OUT]

PRINTED WIRING BOARD

- C Board -



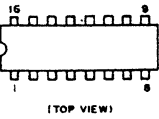
C BOARD WAVEFORMS



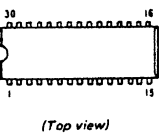


5-4. SEMICONDUCTORS

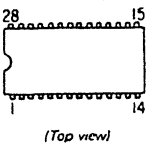
CXA1315M  
CXA1315P  
MC14052BCP  
MC14053BCP  
TDA4660V2  
μ PD4053BC



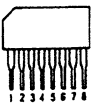
CXA1387S



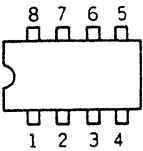
CXK5864BSP-10L



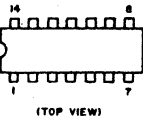
CX20125  
LA7016



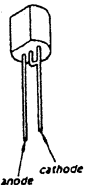
CX23025  
MSM5258RS  
NE5532P  
SDA9086-3  
TBA129  
μ PC358C  
μ PC4557C



HD14013BP  
MC14066BCP  
MC14069UBF  
SN74LS02N



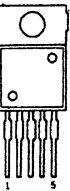
HZT33-02  
μ PC574J



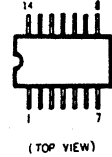
LM7812CT  
NJM78M12FA  
RC78M09FA  
RC7812FA



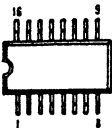
L780505  
MC14052BF



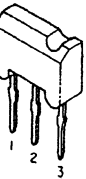
MC14066BF  
MC74HC4066F



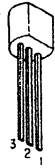
MC14528BF  
MC74HC4053F



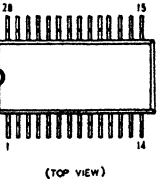
MN1280-S



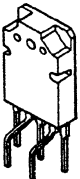
NJM78L09A  
RC78L09A



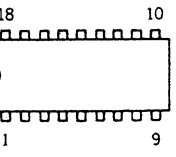
SDA9087XGEG  
SDA9089XGEG  
TDA4650/V4



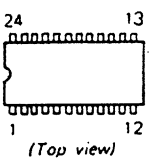
STR80145A



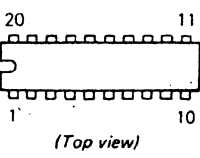
TDA2595/V9



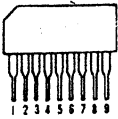
TDA6600-2



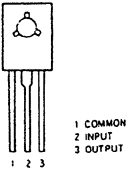
TDA8732



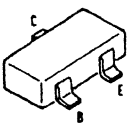
μ PC4570HA-1



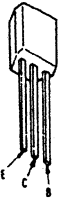
μ PC78N05H



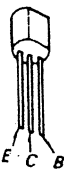
DTA114EK  
DTC114EK  
DTC124EK  
DTC144EK  
2SA1162-YG  
2SC1623-L5L6  
2SC2412K  
2SC2412K-QR



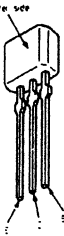
DTC114ES  
DTC124ES  
DTC144ES



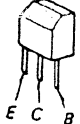
2SA1019-O



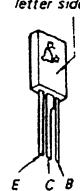
2SA1175-HFE  
2SC2785-HFE



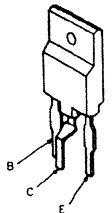
2SB734-34  
2SD774-34



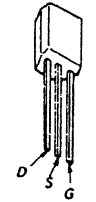
2SC2611  
2SC2688-LK  
2SC3840-K



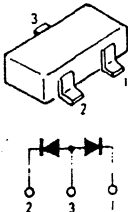
2SC4763 (LBSONY)



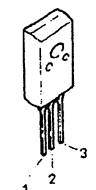
2SK669



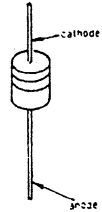
DAP202K



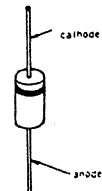
D10SC4M



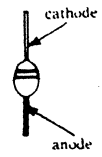
ERA32-004  
ERA38-06  
1SS119  
RB100A  
RD2.2ESB1  
RD2.4ESB2  
RD4.7ESB2  
RD5.1ESB1  
RD5.6ESB1  
RD5.6ESB2  
RD5.8ESB1  
RD6.2ESB2  
RD6.8ESB1  
RD7.5ESB2  
RD8.2ESB2  
RD9.1ESB2  
RD9.1ESB3  
RD10ES  
RD30ESB2  
RD33ESB2  
RD39ESB2



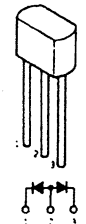
ERA81-004  
RGP02-17



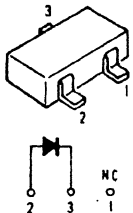
GP08D  
U05G



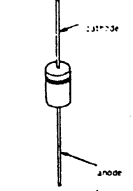
MA152WK



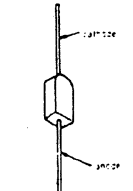
MA3056-TX  
MA3091  
MA3110  
RD3.6MB3  
RD5.1MB2  
RD5.6MB2



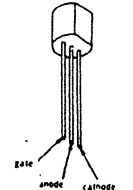
RGP10G  
RU-3AM



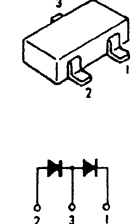
RM11C



SHOR3D42



1SS226



NOTE:  
• Items with r  
cription are  
are seldom  
• The construc  
part are ir  
number in th

6-1. CH/  
●: BVTP3  
■: BVTP4

22

11

REF. NO. PART NO.

1	4-036-7
2	*1-643-8
3	*1-643-8
4	4-036-7
5	*A-1195-
6	4-036-7
7	*A-1347-
	*A-1347-
8	*A-1346-
	*A-1346-
	*A-1346-
	*A-1346-
	*A-1346-
9	Δ 1-439-1
10	4-036-7
11	*A-1373-
	*A-1373-
12	*1-643-8
13	*A-1297-
	*A-1296-
	*A-1297-
	*A-1296-
14	*A-1306-
15	*A-1347-

SECTION 6  
EXPLODED VIEWS

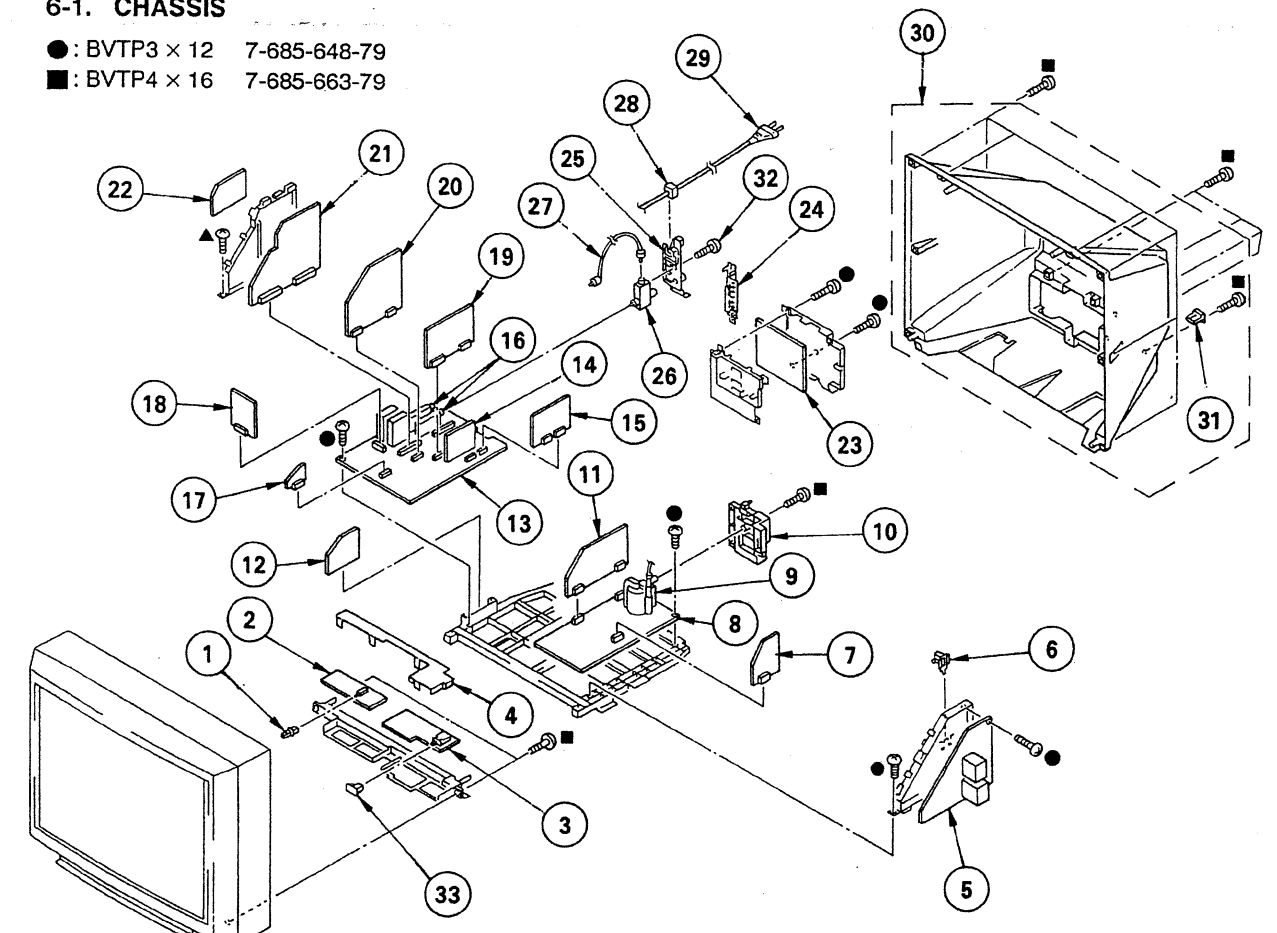
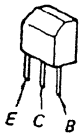
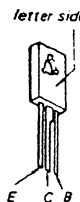
## NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.

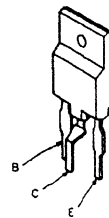
- Items marked " \* " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

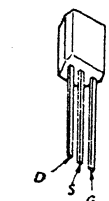
## 6-1. CHASSIS

●: BVTP3  $\times$  12 7-685-648-79■: BVTP4  $\times$  16 7-685-663-792SB734-34  
2SD774-342SC2611  
2SC2688-LK  
2SC3840-K

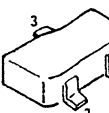
2SC4763 (LBSONY)



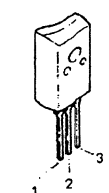
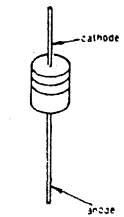
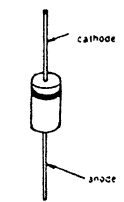
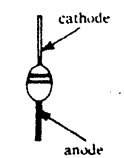
2SK669



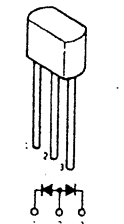
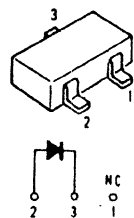
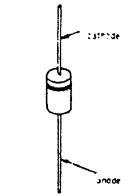
DAP202K



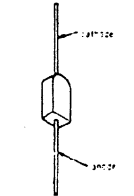
D10SC4M

ERA32-004  
ERA38-06  
1SS119  
RB100A  
RD2.2ESB1  
RD2.4ESB2  
RD4.7ESB2  
RD5.1ESB1  
RD5.6ESB1  
RD5.6ESB2  
RD5.8ESB1  
RD6.2ESB2  
RD6.8ESB1  
RD7.5ESB2  
RD8.2ESB2  
RD9.1ESB2  
RD9.1ESB3  
RD10ES  
RD30ESB2  
RD33ESB2  
RD39ESB2ERA81-004  
RGP02-17GP08D  
U05G

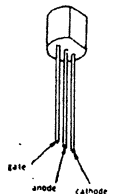
MA152WK

MA3056-TX  
MA3091  
MA3110  
RD3.6MB3  
RD5.1MB2  
RD5.6MB2RGP10G  
RU-3AM

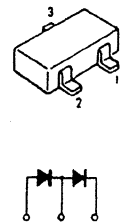
RM11C



SHOR3D42



1SS226

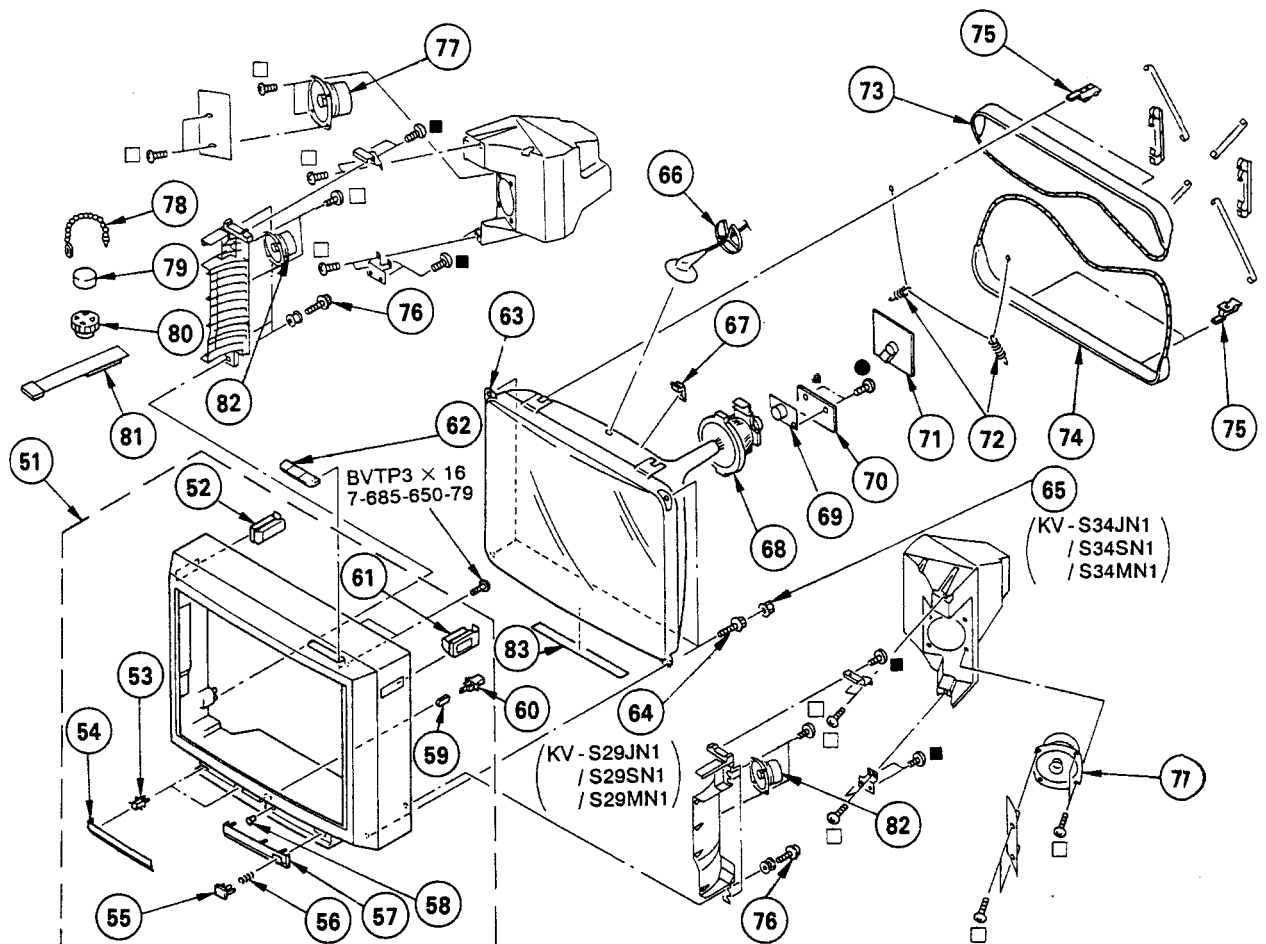


REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
1	4-036-764-01	BUTTON, SELECTION, AV		16	$\Delta$ 1-693-123-11	TUNER, ET (BTP-RG401)	
2	*1-643-890-11	H1 BOARD		17	*1-644-746-11	A2 BOARD	
3	*1-643-891-11	H2 BOARD		18	*A-1390-304-A	S BOARD, COMPLETE	
4	4-036-794-01	COVER, H		19	*A-1135-717-A	BP BOARD, COMPLETE	
5	*A-1195-056-A	F BOARD, COMPLETE		20	*A-1297-031-A	A1 BOARD, COMPLETE	
6	4-036-766-01	CLIP, VC PC BOARD		21	*A-1135-741-A	B BOARD, COMPLETE	
7	*A-1347-064-A	VC BOARD, COMPLETE	(KV-S29JN1, S29MN1, S29SN1)		*A-1135-718-A	B BOARD, COMPLETE	(KV-S29JN1, S29MN1, S29SN1)
	*A-1347-063-A	VC BOARD, COMPLETE	(KV-S34JN1, S34MN1, S34SN1)				(KV-S34JN1, S34MN1, S34SN1)
8	*A-1346-075-A	D BOARD, COMPLETE	(KV-S29JN1, S29MN1)	22	*A-1135-719-A	B1 BOARD, COMPLETE	
	*A-1346-110-A	D BOARD, COMPLETE	(KV-S29SN1)	23	*A-1388-143-A	J BOARD, COMPLETE	
	*A-1346-064-A	D BOARD, COMPLETE	(KV-S34JN1)	24	4-036-789-01	COVER, TERMINAL	
	*A-1346-106-A	D BOARD, COMPLETE	(KV-S34MN1)	25	4-036-787-01	BRACKET, ANTENNA	
	*A-1346-107-A	D BOARD, COMPLETE	(KV-S34SN1)	26	$\Delta$ 1-251-027-11	DISTRIBUTOR	
9	$\Delta$ 1-439-524-11	TRANSFORMER ASSY, FLYBACK (NX-3000A2)		27	*1-555-110-00	CABLE, PIN	
10	4-036-788-01	BRACKET, FBT		28	$\Delta$ 4-335-154-02	GROMMET, AC CORD	
11	*A-1373-365-A	D1 BOARD, COMPLETE	(KV-S29JN1, S29MN1, S29SN1)	29	$\Delta$ 1-696-401-11	CORD, POWER (WITH CONNECTOR)	(KV-S29JN1, S34JN1)
	*A-1373-334-A	D1 BOARD, COMPLETE	(KV-S34JN1, S34MN1, S34SN1)		$\Delta$ 1-574-062-12	CORD, POWER (WITH CONNECTOR)	(KV-S29MN1, S34MN1)
12	*1-643-889-11	F1 BOARD			$\Delta$ 1-574-358-11	CORD, POWER (WITH CONNECTOR)	(KV-S29SN1, S34SN1)
13	*A-1297-064-A	A BOARD, COMPLETE (KV-S29JN1)		30	X-4030-652-2	COVER ASSY, REAR	31
	*A-1296-972-A	A BOARD, COMPLETE	(KV-S29MN1, S29SN1)		X-4030-446-1	COVER ASSY, REAR	(KV-S29JN1, S29MN1, S29SN1)
	*A-1297-033-A	A BOARD, COMPLETE (KV-S34JN1)					(KV-S34JN1, S34MN1, S34SN1)
	*A-1296-961-A	A BOARD, COMPLETE (KV-S34MN1, S34SN1)		31	4-033-719-01	BUCKLE, A	
14	*A-1306-425-A	M BOARD, COMPLETE (KV-S29JN1, S34JN1)		32	4-379-611-01	SCREW (M3X8), +B	
		(KV-S29MN1, S29SN1, S34MN1, S34SN1)		33	4-394-972-01	CAP, POWER	
15	*A-1347-062-A	V BOARD, COMPLETE					

## 6-2. PICTURE TUBE

- : BVTP 3 × 12 7-685-648-79  
 ■: BVTP 4 × 16 7-685-663-79  
 □: BVTP 4 × 12 7-685-661-79

The components identified by shading and mark  $\Delta$  are critical for safety.  
 Replace only with part number specified.



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
51	X-4030-778-1	CABINET ASSY (WITH BEZEL ASSY)	52~61 (KV-S29JN1)	64	4-390-505-01	SCREW (7), TAPPING	(KV-S29JN1, S29MN1, S29SN1)
	X-4030-687-1	CABINET ASSY (WITH BEZEL ASSY)	52~61 (KV-S29MN1)	65	4-387-204-01	NUT, SPECIAL, PICTURE TUBE	(KV-S34JN1, S34MN1, S34SN1)
	X-4030-776-1	CABINET ASSY (WITH BEZEL ASSY)	52~61 (KV-S29SN1)	66	*3-704-372-01	HOLDER, HV CABLE	
	X-4030-688-1	CABINET ASSY (WITH BEZEL ASSY)	52~61 (KV-S34JN1)	67	3-704-495-01	SPACER, DY	
	X-4030-650-1	CABINET ASSY (WITH BEZEL ASSY)	52~61 (KV-S34MN1)	68	$\Delta$ 1-451-394-11	DEFLECTION YOKE (Y29EXA)	(KV-S29JN1, S29MN1, S29SN1)
	X-4030-666-1	CABINET ASSY (WITH BEZEL ASSY)	52~61 (KV-S34SN1)		$\Delta$ 1-451-393-11	DEFLECTION YOKE (Y34EXA)	(KV-S34JN1, S34MN1, S34SN1)
52	4-033-553-03	HANDLE (L)		69	$\Delta$ 1-452-616-12	NECK ASSY, PICTURE TUBE (NA323)	
53	3-703-035-11	SHAFT, LID		70	*A-1342-186-A	VM BOARD, COMPLETE	
54	4-036-782-71	DOOR (KV-S29JN1)		71	*A-1331-217-A	C BOARD, COMPLETE	
	4-036-782-41	DOOR (KV-S29MN1)		72	4-369-318-00	SPRING, TENSION	
	4-036-782-61	DOOR (KV-S29SN1)		73	$\Delta$ 1-402-742-11	COIL, DEGAUSSING (KV-S29JN1, S29MN1, S29SN1)	
	4-036-782-51	DOOR (KV-S34JN1)			$\Delta$ 1-426-607-11	COIL, DEGAUSSING (KV-S34JN1, S34MN1, S34SN1)	
	4-036-782-11	DOOR (KV-S34MN1)		74	$\Delta$ 1-402-743-11	COIL, DEGAUSSING (KV-S29JN1, S29MN1, S29SN1)	
	4-036-782-31	DOOR (KV-S34SN1)			$\Delta$ 1-426-608-11	COIL, DEGAUSSING (KV-S34JN1, S34MN1, S34SN1)	
55	4-036-776-01	BUTTON, POWER		75	4-033-545-01	CLIP (KV-S29JN1, S29MN1, S29SN1)	
56	4-038-104-01	SPRING, COMPRESSION			4-033-744-01	CLIP (KV-S34JN1, S34MN1, S34SN1)	
57	4-036-783-01	PANEL		76	4-384-096-01	SCREW (4X16), TAPPING, +P	
58	*4-374-987-01	GUIDE, LIGHT		77	1-544-557-11	SPEAKER (12CM)	
59	4-036-765-01	ARM		78	4-308-870-00	CLIP, LEAD WIRE	
60	4-036-777-01	DAMPER		79	1-452-032-00	MAGNET, DISK; 10MM $\phi$	
61	4-033-552-03	HANDLE (R)		80	1-452-094-00	MAGNET, ROTABLE DISK; 15MM $\phi$	
62	1-466-752-11	BLOCK, SWITCH		81	X-4306-312-0	PERMALLOY ASSY, CONVERGENCE	
63	$\Delta$ 8-733-837-05	PICTURE TUBE (M68KU210X)	(KV-S29JN1, S29MN1)	82	1-504-121-41	SPEAKER (SQUAWKER) (5CM)	
	$\Delta$ 8-733-836-05	PICTURE TUBE (M68KU210X)	(KV-S29SN1)	83	4-385-725-01	SHEET, BLOTING	
	$\Delta$ 8-733-731-05	PICTURE TUBE (M81KVA10X)	(KV-S34JN1)				
	$\Delta$ 8-733-733-05	PICTURE TUBE (M81KVA10X)	(KV-S34MN1)				
	$\Delta$ 8-733-732-05	PICTURE TUBE (M81KVA10X)	(KV-S34SN1)				

BP

SECTION 7  
ELECTRICAL PARTS LIST

## NOTE:

The components identified by shading and mark  $\Delta$  are critical for safety.  
Replace only with part number specified.

• Items marked " \* " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

• All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

## RESISTORS

• All resistors are in ohms  
• F : nonflammable

When indicating parts by reference number, please include the board name.

## CAPACITORS

• MF :  $\mu$ F, PF :  $\mu$ F

## COILS

• MMH : mH, UH :  $\mu$ H

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
	*A-1135-717-A	BP BOARD, COMPLETE *****		C3341	1-130-491-00	MYLAR 0.047MF	5% 50V
	4-038-322-01	CUSHION		C3342	1-106-343-00	FILM 0.001MF	5% 100V
	<FILTER>			C3343	1-124-034-51	ELECT 33MF	20% 16V
BF3301	1-236-063-11	MODULE, B.P.F		C3344	1-124-903-11	ELECT 1MF	20% 50V
	<CAPACITOR>			C3345	1-136-169-00	FILM 0.22MF	5% 50V
C3301	1-124-477-11	ELECT 47MF	20% 16V	C3346	1-130-483-00	MYLAR 0.01MF	5% 50V
C3302	1-163-038-00	CERAMIC CHIP 0.1MF	5% 25V	C3347	1-126-101-11	ELECT 100MF	20% 16V
C3303	1-124-477-11	ELECT 47MF	20% 16V	C3348	1-136-287-11	FILM 0.0047MF	5% 50V
C3304	1-163-135-00	CERAMIC CHIP 560PF	5% 50V	C3349	1-136-175-00	FILM 0.68MF	5% 50V
C3305	1-163-038-00	CERAMIC CHIP 0.1MF	5% 25V	C3350	1-130-483-00	MYLAR 0.01MF	5% 50V
C3306	1-124-903-11	ELECT 1MF	20% 50V	C3351	1-130-487-00	MYLAR 0.022MF	5% 50V
C3307	1-136-489-81	FILM 0.022MF	5% 50V	C3352	1-124-927-11	ELECT 4.7MF	20% 50V
C3308	1-163-033-00	CERAMIC CHIP 0.022MF	5% 50V	C3353	1-163-809-11	CERAMIC CHIP 0.047MF	10% 25V
C3309	1-163-031-11	CERAMIC CHIP 0.01MF	5% 50V	C3354	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C3310	1-124-903-11	ELECT 1MF	20% 50V	C3356	1-124-126-00	ELECT 47MF	20% 10V
C3311	1-126-103-11	ELECT 470MF	20% 16V	C3357	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C3312	1-136-493--B	FILM 0.047MF	5% 50V	C3358	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C3313	1-163-111-00	CERAMIC CHIP 56PF	5% 50V	C3359	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C3314	1-163-031-11	CERAMIC CHIP 0.01MF	5% 50V	C3360	1-164-005-11	CERAMIC CHIP 0.47MF	25V
C3315	1-136-171-00	FILM 0.33MF	5% 50V	C3361	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C3316	1-163-115-00	CERAMIC CHIP 82PF	5% 50V	C3362	1-124-443-00	ELECT 100MF	20% 6.3V
C3317	1-163-237-11	CERAMIC CHIP 27PF	5% 50V	C3363	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C3318	1-163-105-00	CERAMIC CHIP 33PF	5% 50V	C3364	1-124-477-11	ELECT 47MF	20% 16V
C3319	1-163-119-00	CERAMIC CHIP 120PF	5% 50V	C3365	1-124-791-11	ELECT 1MF	20% 50V
C3320	1-216-037-00	METAL GLAZE 330 5%	1/10W	C3366	1-124-477-11	ELECT 47MF	20% 16V
C3321	1-136-497--B	FILM 0.1MF	5% 50V	C3367	1-124-791-11	ELECT 1MF	20% 50V
C3322	1-216-037-00	METAL GLAZE 330 5%	1/10W	C3368	1-124-903-11	ELECT 1MF	20% 50V
C3323	1-163-237-11	CERAMIC CHIP 27PF	5% 50V	C3369	1-163-133-00	CERAMIC CHIP 470PF	5% 50V
C3324	1-136-489-81	FILM 0.022MF	5% 50V	C3370	1-124-443-00	ELECT 100MF	20% 6.3V
C3325	1-136-497--B	FILM 0.1MF	5% 50V	C3371	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C3326	1-136-489-81	FILM 0.022MF	5% 50V	C3372	1-163-133-00	CERAMIC CHIP 470PF	5% 50V
C3327	1-136-497--B	FILM 0.1MF	5% 50V	C3373	1-124-477-11	ELECT 47MF	20% 16V
C3328	1-163-125-00	CERAMIC CHIP 220PF	5% 50V	C3375	1-124-443-00	ELECT 100MF	20% 6.3V
C3329	1-163-031-11	CERAMIC CHIP 0.01MF	5% 50V	C3376	1-124-443-00	ELECT 100MF	20% 6.3V
C3330	1-163-123-00	CERAMIC CHIP 180PF	5% 50V	C3377	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C3331	1-163-031-11	CERAMIC CHIP 0.01MF	5% 50V	C3378	1-163-123-00	CERAMIC CHIP 180PF	5% 50V
C3332	1-136-497--B	FILM 0.1MF	5% 50V	C3379	1-164-222-11	CERAMIC CHIP 0.22MF	25V
C3333	1-124-910-11	ELECT 47MF	20% 50V	C3380	1-124-477-11	ELECT 47MF	20% 16V
C3334	1-163-121-00	CERAMIC CHIP 150PF	5% 50V	C3381	1-124-477-11	ELECT 47MF	20% 16V
C3335	1-163-031-11	CERAMIC CHIP 0.01MF	5% 50V	C3382	1-124-477-11	ELECT 47MF	20% 16V
C3336	1-163-031-11	CERAMIC CHIP 0.01MF	5% 50V	C3383	1-124-477-11	ELECT 47MF	20% 16V
C3337	1-124-910-11	ELECT 47MF	20% 50V	C3384	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C3338	1-136-497--B	FILM 0.1MF	5% 50V	C3389	1-126-320-11	ELECT 10MF	20% 16V
C3339	1-136-497--B	FILM 0.1MF	5% 50V	C3391	1-126-320-11	ELECT 10MF	20% 16V
C3340	1-136-497--B	FILM 0.1MF	5% 50V	C3392	1-164-161-11	CERAMIC CHIP 0.0022MF	10% 50V
				C3393	1-163-005-11	CERAMIC CHIP 470PF	10% 50V
				C3394	1-163-095-00	CERAMIC CHIP 12PF	5% 50V
				C3395	1-124-477-11	ELECT 47MF	20% 16V
				C3396	1-163-038-00	CERAMIC CHIP 0.1MF	25V
				C3397	1-163-109-00	CERAMIC CHIP 47PF	5% 50V
				C3399	1-124-477-11	ELECT 47MF	20% 16V

Bp

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C3400	1-126-157-11	ELECT 10MF 20% 16V		L3312	1-410-470-11	INDUCTOR 10UH	
C3401	1-124-907-11	ELECT 10MF 20% 50V		L3313	1-410-645-31	INDUCTOR 100UH	
C3402	1-163-119-00	CERAMIC CHIP 120PF 5% 50V		L3314	1-410-645-31	INDUCTOR 100UH	
C3403	1-164-161-11	CERAMIC CHIP 0.0022MF 10% 50V					
<CONNECTOR>				<TRANSISTOR>			
CN3301	*1-691-632-11	CONNECTOR, BOARD TO BOARD 15P		Q3301	8-729-901-04	TRANSISTOR DTA114EK	
CN3302	*1-573-979-11	CONNECTOR, BOARD TO BOARD 11P		Q3302	8-729-901-04	TRANSISTOR DTA114EK	
<TRIMMER>				Q3303	8-729-901-04	TRANSISTOR DTA114EK	
CT3301	1-141-245-00	TRIMMER, CERAMIC		Q3304	8-729-901-04	TRANSISTOR DTA114EK	
CT3304	1-141-245-00	TRIMMER, CERAMIC		Q3305	8-729-230-49	TRANSISTOR 2SC2712-YG	
<DIODE>				Q3309	8-729-230-46	TRANSISTOR 2SA1162-YG	
D3301	8-719-800-76	DIODE 1SS226		Q3310	8-729-230-49	TRANSISTOR 2SC2712-YG	
D3302	8-719-800-76	DIODE 1SS226		Q3311	8-729-230-49	TRANSISTOR 2SC2712-YG	
D3303	8-719-800-76	DIODE 1SS226		Q3312	8-729-901-01	TRANSISTOR DTC144EK	
D3304	8-719-800-76	DIODE 1SS226		Q3313	8-729-901-00	TRANSISTOR DTC124EK	
D3305	8-719-800-76	DIODE 1SS226		Q3314	8-729-901-01	TRANSISTOR DTC144EK	
D3306	8-719-105-91	DIODE RD5.6M-B2		Q3315	8-729-230-49	TRANSISTOR 2SC2712-YG	
D3307	8-719-105-91	DIODE RD5.6M-B2		Q3316	8-729-230-49	TRANSISTOR 2SC2712-YG	
D3308	8-719-800-76	DIODE 1SS226		Q3317	8-729-230-46	TRANSISTOR 2SA1162-YG	
D3309	8-719-800-76	DIODE 1SS226		Q3318	8-729-230-49	TRANSISTOR 2SC2712-YG	
D3310	8-719-800-76	DIODE 1SS226		Q3319	8-729-230-49	TRANSISTOR 2SC2712-YG	
D3311	8-719-800-76	DIODE 1SS226		Q3320	8-729-230-49	TRANSISTOR 2SC2712-YG	
D3312	8-719-800-76	DIODE 1SS226		Q3321	8-729-230-46	TRANSISTOR 2SA1162-YG	
D3313	8-719-982-11	DIODE MTZJ-4.3B		Q3322	8-729-901-01	TRANSISTOR DTC144EK	
<DELAY LINE>				Q3323	8-729-230-49	TRANSISTOR 2SC2712-YG	
DL3301	1-415-914-11	DELAY LINE		Q3324	8-729-230-46	TRANSISTOR 2SA1162-YG	
DL3302	1-415-914-11	DELAY LINE		Q3325	8-729-230-46	TRANSISTOR 2SA1162-YG	
<IC>				Q3326	8-729-230-49	TRANSISTOR 2SC2712-YG	
IC3301	8-752-058-68	IC CXA1315M		Q3327	8-729-230-46	TRANSISTOR 2SA1162-YG	
IC3302	8-759-521-22	IC TDA4650/V4		Q3328	8-729-230-49	TRANSISTOR 2SC2712-YG	
IC3303	8-759-505-39	IC TDA4660V2		Q3329	8-729-230-49	TRANSISTOR 2SC2712-YG	
IC3304	8-759-009-46	IC MC14528BF		Q3330	8-729-900-53	TRANSISTOR DTC114EK	
IC3306	8-759-513-48	IC TDA2595/V9		Q3331	8-729-900-53	TRANSISTOR DTC114EK	
IC3307	8-759-055-51	IC SDA9087XGEG		Q3332	8-729-900-53	TRANSISTOR DTC114EK	
IC3308	8-759-055-52	IC SDA9089XGEG		Q3333	8-729-900-53	TRANSISTOR DTC114EK	
IC3309	8-759-046-27	IC SDA9086-3		Q3334	8-729-900-53	TRANSISTOR DTC114EK	
IC3310	8-759-112-06	IC UPC78N05H		Q3335	8-729-230-49	TRANSISTOR 2SC2712-YG	
IC3311	8-759-112-06	IC UPC78N05H		Q3336	8-729-230-49	TRANSISTOR 2SC2712-YG	
IC3312	8-759-009-06	IC MC14052BF		Q3337	8-729-230-46	TRANSISTOR 2SA1162-YG	
IC3313	8-759-009-10	IC MC14069UBF		Q3338	8-729-230-46	TRANSISTOR 2SA1162-YG	
<COIL>				Q3339	8-729-901-01	TRANSISTOR DTC144EK	
L3301	1-408-424-00	INDUCTOR 180UH		<RESISTOR>			
L3302	1-408-424-00	INDUCTOR 180UH		R3301	1-216-033-00	METAL GLAZE 220 5% 1/10W	
L3303	1-404-554-11	COIL		R3302	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
L3304	1-408-421-00	INDUCTOR 100UH		R3303	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
L3305	1-408-421-00	INDUCTOR 100UH		R3304	1-216-033-00	METAL GLAZE 220 5% 1/10W	
L3306	1-410-470-11	INDUCTOR 10UH		R3305	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
L3307	1-410-470-11	INDUCTOR 10UH		R3306	1-216-055-00	METAL GLAZE 1.8K 5% 1/10W	
L3308	1-410-472-41	INDUCTOR 15UH		R3307	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
L3309	1-410-472-41	INDUCTOR 15UH		R3308	1-216-047-00	METAL GLAZE 820 5% 1/10W	
L3310	1-410-472-41	INDUCTOR 15UH		R3309	1-216-047-00	METAL GLAZE 820 5% 1/10W	
L3311	1-410-466-41	INDUCTOR 4.7UH		R3310	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
				R3311	1-216-025-00	METAL GLAZE 100 5% 1/10W	
				R3312	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
				R3313	1-216-047-00	METAL GLAZE 820 5% 1/10W	
				R3314	1-216-053-00	METAL GLAZE 1.5K 5% 1/10W	
				R3315	1-216-047-00	METAL GLAZE 820 5% 1/10W	
				R3316	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W	
				R3318	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W	
				R3319	1-216-041-00	METAL GLAZE 470 5% 1/10W	
				R3320	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	

REF. NO.	PART NO.	DESCRIPTION				
R3321	1-216-295-00	METAL	GLAZE	0	5%	1/10W
R3322	1-216-033-00	METAL	GLAZE	220	5%	1/10W
R3323	1-216-053-00	METAL	GLAZE	1.5K	5%	1/10W
R3324	1-216-039-00	METAL	GLAZE	390	5%	1/10W
R3325	1-216-033-00	METAL	GLAZE	220	5%	1/10W
R3326	1-216-089-00	METAL	GLAZE	47K	5%	1/10W
R3327	1-216-073-00	METAL	GLAZE	10K	5%	1/10W
R3328	1-216-097-00	METAL	GLAZE	100K	5%	1/10W
R3329	1-216-121-00	METAL	GLAZE	1M	5%	1/10W
R3330	1-216-089-00	METAL	GLAZE	47K	5%	1/10W
R3331	1-216-025-00	METAL	GLAZE	100	5%	1/10W
R3332	1-216-073-00	METAL	GLAZE	10K	5%	1/10W
R3333	1-216-065-00	METAL	GLAZE	4.7K	5%	1/10W
R3334	1-216-184-00	METAL	GLAZE	270	5%	1/8W
R3335	1-216-073-00	METAL	GLAZE	10K	5%	1/10W
R3337	1-216-184-00	METAL	GLAZE	270	5%	1/8W
R3338	1-216-001-00	METAL	GLAZE	10	5%	1/10W
R3339	1-216-073-00	METAL	GLAZE	10K	5%	1/10W
R3341	1-216-051-00	METAL	GLAZE	1.2K	5%	1/10W
R3342	1-216-065-00	METAL	GLAZE	4.7K	5%	1/10W
R3343	1-216-001-00	METAL	GLAZE	10	5%	1/10W
R3344	1-216-049-00	METAL	GLAZE	1K	5%	1/10W
R3345	1-216-121-00	METAL	GLAZE	1M	5%	1/10W
R3346	1-216-065-00	METAL	GLAZE	4.7K	5%	1/10W
R3347	1-216-081-00	METAL	GLAZE	22K	5%	1/10W
R3348	1-216-089-00	METAL	GLAZE	47K	5%	1/10W
R3349	1-216-677-11	METAL	CHIP	12K	0.50%	1/10W
R3350	1-216-057-00	METAL	GLAZE	2.2K	5%	1/10W
R3351	1-216-081-00	METAL	GLAZE	22K	5%	1/10W
R3352	1-216-063-00	METAL	GLAZE	3.9K	5%	1/10W
R3353	1-216-085-00	METAL	GLAZE	33K	5%	1/10W
R3354	1-216-057-00	METAL	GLAZE	2.2K	5%	1/10W
R3355	1-216-075-00	METAL	GLAZE	12K	5%	1/10W
R3358	1-216-099-00	METAL	GLAZE	120K	5%	1/10W
R3359	1-216-097-00	METAL	GLAZE	100K	5%	1/10W
R3360	1-216-065-00	METAL	GLAZE	4.7K	5%	1/10W
R3361	1-216-109-00	METAL	GLAZE	330K	5%	1/10W
R3362	1-216-065-00	METAL	GLAZE	4.7K	5%	1/10W
R3363	1-216-047-00	METAL	GLAZE	820	5%	1/10W
R3364	1-216-065-00	METAL	GLAZE	4.7K	5%	1/10W
R3365	1-216-045-00	METAL	GLAZE	680	5%	1/10W
R3366	1-216-081-00	METAL	GLAZE	22K	5%	1/10W
R3367	1-216-065-00	METAL	GLAZE	4.7K	5%	1/10W
R3368	1-216-295-00	METAL	GLAZE	0	5%	1/10W
R3369	1-216-079-00	METAL	GLAZE	18K	5%	1/10W
R3370	1-216-057-00	METAL	GLAZE	2.2K	5%	1/10W
R3372	1-216-295-00	METAL	GLAZE	0	5%	1/10W
R3373	1-216-083-00	METAL	GLAZE	27K	5%	1/10W
R3374	1-216-053-00	METAL	GLAZE	1.5K	5%	1/10W
R3375	1-216-045-00	METAL	GLAZE	680	5%	1/10W
R3376	1-216-073-00	METAL	GLAZE	10K	5%	1/10W
R3377	1-216-089-00	METAL	GLAZE	47K	5%	1/10W
R3378	1-216-065-00	METAL	GLAZE	4.7K	5%	1/10W
R3379	1-216-053-00	METAL	GLAZE	1.5K	5%	1/10W
R3380	1-216-049-00	METAL	GLAZE	1K	5%	1/10W
R3382	1-216-033-00	METAL	GLAZE	220	5%	1/10W
R3383	1-216-065-00	METAL	GLAZE	4.7K	5%	1/10W
R3384	1-216-295-00	METAL	GLAZE	0	5%	1/10W
R3385	1-216-033-00	METAL	GLAZE	220	5%	1/10W
R3386	1-216-057-00	METAL	GLAZE	2.2K	5%	1/10W
R3387	1-216-049-00	METAL	GLAZE	1K	5%	1/10W
R3388	1-216-041-00	METAL	GLAZE	470	5%	1/10W
R3389	1-216-041-00	METAL	GLAZE	470	5%	1/10W
R3390	1-216-049-00	METAL	GLAZE	1K	5%	1/10W

REMARK	REF. NO.	PART NO.	DESCRIPTION			REMARK
	R3391	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
	R3392	1-216-113-00	METAL GLAZE	470K	5%	1/10W
	R3393	1-216-033-00	METAL GLAZE	220	5%	1/10W
	R3394	1-216-025-00	METAL GLAZE	100	5%	1/10W
	R3395	1-216-063-00	METAL GLAZE	3.9K	5%	1/10W
	R3396	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W
	R3397	1-216-295-00	METAL GLAZE	0	5%	1/10W
	R3398	1-216-073-00	METAL GLAZE	10K	5%	1/10W
	R3399	1-216-029-00	METAL GLAZE	150	5%	1/10W
	R3400	1-216-041-00	METAL GLAZE	470	5%	1/10W
	R3401	1-216-039-00	METAL GLAZE	390	5%	1/10W
	R3402	1-216-039-00	METAL GLAZE	390	5%	1/10W
	R3404	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
	R3406	1-216-035-00	METAL GLAZE	270	5%	1/10W
	R3407	1-216-295-00	METAL GLAZE	0	5%	1/10W
	R3408	1-216-295-00	METAL GLAZE	0	5%	1/10W
	R3409	1-216-049-00	METAL GLAZE	1K	5%	1/10W
	R3410	1-216-295-00	METAL GLAZE	0	5%	1/10W
	R3411	1-216-073-00	METAL GLAZE	10K	5%	1/10W
	R3414	1-216-689-11	METAL GLAZE	39K	5%	1/10W
	R3415	1-216-049-00	METAL GLAZE	1K	5%	1/10W
	R3417	1-216-049-00	METAL GLAZE	1K	5%	1/10W
	R3418	1-216-049-00	METAL GLAZE	1K	5%	1/10W
	R3419	1-216-049-00	METAL GLAZE	1K	5%	1/10W
	R3420	1-216-295-00	METAL GLAZE	0	5%	1/10W
	R3421	1-216-049-00	METAL GLAZE	1K	5%	1/10W
	R3422	1-249-484-91	CARBON	6.8	5%	1/2W F
	R3423	1-216-049-00	METAL GLAZE	1K	5%	1/10W
	R3425	1-216-025-00	METAL GLAZE	100	5%	1/10W
	R3426	1-216-033-00	METAL GLAZE	220	5%	1/10W
	R3427	1-216-295-00	METAL GLAZE	0	5%	1/10W
	R3428	1-216-041-00	METAL GLAZE	470	5%	1/10W
	R3429	1-216-049-00	METAL GLAZE	1K	5%	1/10W
	R3430	1-216-295-00	METAL GLAZE	0	5%	1/10W
	R3431	1-216-035-00	METAL GLAZE	270	5%	1/10W
	R3432	1-216-073-00	METAL GLAZE	10K	5%	1/10W
	R3434	1-216-073-00	METAL GLAZE	10K	5%	1/10W
	R3435	1-216-295-00	METAL GLAZE	0	5%	1/10W
	R3436	1-216-295-00	METAL GLAZE	0	5%	1/10W
	R3437	1-216-041-00	METAL GLAZE	470	5%	1/10W
	R3438	1-216-049-00	METAL GLAZE	1K	5%	1/10W
	R3439	1-216-035-00	METAL GLAZE	270	5%	1/10W
	R3443	1-216-073-00	METAL GLAZE	10K	5%	1/10W
	R3444	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W
	R3445	1-216-121-00	METAL GLAZE	1M	5%	1/10W
	R3446	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W
	R3447	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
	R3448	1-216-119-00	METAL GLAZE	820K	5%	1/10W
	R3449	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
	R3450	1-216-081-00	METAL GLAZE	22K	5%	1/10W
	R3451	1-216-081-00	METAL GLAZE	22K	5%	1/10W
	R3452	1-216-033-00	METAL GLAZE	220	5%	1/10W
	R3454	1-216-049-00	METAL GLAZE	1K	5%	1/10W
	R3455	1-216-295-00	METAL GLAZE	0	5%	1/10W
	R3457	1-216-049-00	METAL GLAZE	1K	5%	1/10W
	R3458	1-216-295-00	METAL GLAZE	0	5%	1/10W
	R3459	1-216-073-00	METAL GLAZE	10K	5%	1/10W
	R3461	1-216-101-00	METAL GLAZE	150K	5%	1/10W
	R3462	1-216-101-00	METAL GLAZE	150K	5%	1/10W
			<VARIABLE RESISTOR>			
	RV3301	1-241-119-11	RES. ADJ. CARBON	1K		

Bp

B

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
RV3302	1-241-632-11	RES, ADJ, CARBON 47K		C342	1-126-157-11	ELECT 10MF	20% 16V
		<TRANSFORMER>		C343	1-126-101-11	ELECT 100MF	20% 16V
T3301	1-404-584-11	COIL		C344	1-126-320-11	ELECT 10MF	20% 16V
		<CRYSTAL>		C346	1-124-902-00	ELECT 0.47MF	20% 50V
X3301	1-567-413-11	VIBRATOR, CRYSTAL		C347	1-124-902-00	ELECT 0.47MF	20% 50V
X3304	1-527-789-00	VINRATOR, CRYSTAL		C348	1-163-031-11	CERAMIC CHIP 0.01MF	50V
X3305	1-577-360-11	VIBRATOR, CERAMIC		C350	1-124-903-11	ELECT 1MF	20% 50V
*****				C351	1-124-902-00	ELECT 0.47MF	20% 50V
*A-1135-741-A	B BOARD, COMPLETE	(KV-S29JN1, S29MN1, S29SN1)		C352	1-136-489-81	FILM 0.022MF	5% 50V
*A-1135-718-A	B BOARD, COMPLETE	(KV-S34JN1, S34MN1, S34SN1)		C353	1-163-033-00	CERAMIC CHIP 0.022MF	50V
				C354	1-163-031-11	CERAMIC CHIP 0.01MF	50V
1-402-699-11	DELAY LINE			C355	1-124-903-11	ELECT 1MF	20% 50V
		<CAPACITOR>		C356	1-126-103-11	ELECT 470MF	20% 16V
C301	1-124-907-11	ELECT 10MF	20% 50V	C357	1-136-493-81	FILM 0.047MF	5% 50V
C302	1-124-482-11	ELECT 33MF	20% 25V	C358	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C303	1-163-117-00	CERAMIC CHIP 100PF	5% 50V	C359	1-136-171-00	FILM 0.33MF	5% 50V
C304	1-163-117-00	CERAMIC CHIP 100PF	5% 50V	C360	1-124-907-11	ELECT 10MF	20% 50V
C305	1-124-478-11	ELECT 100MF	20% 25V	C361	1-163-237-11	CERAMIC CHIP 27PF	5% 50V
C306	1-124-477-11	ELECT 47MF	20% 16V	C362	1-163-119-00	CERAMIC CHIP 120PF	5% 50V
C307	1-124-903-11	ELECT 1MF	20% 50V	C363	1-216-037-00	METAL GLAZE 330 5%	1/10W
C308	1-124-903-11	ELECT 1MF	20% 50V	C364	1-136-497-81	FILM 0.1MF	5% 50V
C309	1-126-233-11	ELECT 22MF	20% 25V	C365	1-124-477-11	ELECT 47MF	20% 16V
C310	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C366	1-124-907-11	ELECT 10MF	20% 50V
C311	1-124-907-11	ELECT 10MF	20% 50V	C367	1-216-037-00	METAL GLAZE 330 5%	1/10W
C312	1-124-034-51	ELECT 33MF	20% 16V	C368	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C313	1-124-478-11	ELECT 100MF	20% 25V	C369	1-163-237-11	CERAMIC CHIP 27PF	5% 50V
C314	1-126-233-11	ELECT 22MF	20% 25V	C370	1-136-489-81	FILM 0.022MF	5% 50V
C315	1-124-907-11	ELECT 10MF	20% 50V	C371	1-124-907-11	ELECT 10MF	20% 50V
C316	1-126-233-11	ELECT 22MF	20% 25V	C372	1-136-497-81	FILM 0.1MF	5% 50V
C317	1-124-477-11	ELECT 47MF	20% 16V	C373	1-136-489-81	FILM 0.022MF	5% 50V
C318	1-124-907-11	ELECT 10MF	20% 50V	C374	1-136-497-81	FILM 0.1MF	5% 50V
C319	1-124-907-11	ELECT 10MF	20% 50V	C375	1-163-125-00	CERAMIC CHIP 220PF	5% 50V
C320	1-124-034-51	ELECT 33MF	20% 16V	C376	1-124-902-00	ELECT 0.47MF	20% 50V
C321	1-124-907-11	ELECT 10MF	20% 50V	C377	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C322	1-124-903-11	ELECT 1MF	20% 50V	C378	1-124-477-11	ELECT 47MF	20% 25V
C323	1-124-910-11	ELECT 47MF	20% 50V	C379	1-163-123-00	CERAMIC CHIP 180PF	5% 50V
C324	1-124-907-11	ELECT 10MF	20% 50V	C380	1-124-907-11	ELECT 10MF	20% 50V
C325	1-126-233-11	ELECT 22MF	20% 25V	C381	1-102-129-00	CERAMIC 0.01MF	10% 50V
C326	1-126-233-11	ELECT 22MF	20% 25V	C382	1-163-121-00	CERAMIC CHIP 150PF	5% 50V
C327	1-126-233-11	ELECT 22MF	20% 25V	C383	1-124-790-11	ELECT 0.47MF	20% 100V
C328	1-124-907-11	ELECT 10MF	20% 50V	C384	1-124-902-00	ELECT 0.47MF	20% 50V
C329	1-124-120-11	ELECT 220MF	20% 16V	C385	1-124-902-00	ELECT 0.47MF	20% 50V
C330	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V	C386	1-136-497-81	FILM 0.1MF	5% 50V
C331	1-126-103-11	ELECT 470MF	20% 16V	C387	1-124-902-00	ELECT 0.47MF	20% 50V
C332	1-163-031-11	CERAMIC CHIP 0.01MF	50V	C388	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C333	1-126-103-11	ELECT 470MF	20% 16V	C389	1-136-497-81	FILM 0.1MF	5% 50V
C334	1-124-902-00	ELECT 0.47MF	20% 50V	C390	1-124-910-11	ELECT 47MF	20% 50V
C335	1-124-902-00	ELECT 0.47MF	20% 50V	C391	1-124-902-00	ELECT 0.47MF	20% 50V
C336	1-124-907-11	ELECT 10MF	20% 50V	C392	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C338	1-124-907-11	ELECT 10MF	20% 50V	C393	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C339	1-124-907-11	ELECT 10MF	20% 50V	C394	1-163-025-11	CERAMIC CHIP 0.001MF	50V
C340	1-126-101-11	ELECT 100MF	20% 16V	C395	1-136-153-00	FILM 0.01MF	5% 50V
C341	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	C396	1-124-902-00	ELECT 0.47MF	20% 50V
				C397	1-136-169-00	FILM 0.22MF	5% 50V
						(KV-S29JN1, S29MN1, S29SN1)	
					1-136-497-81	FILM 0.1MF	5% 50V
						(KV-S34JN1, S34MN1, S34SN1)	
				C398	1-163-025-11	CERAMIC CHIP 0.001MF	50V
				C399	1-136-165-00	FILM 0.1MF	5% 50V
				C400	1-124-034-51	ELECT 33MF	20% 16V
				C401	1-124-902-00	ELECT 0.47MF	20% 50V
				C402	1-124-556-11	ELECT 2200MF	20% 16V
				C403	1-124-910-11	ELECT 47MF	20% 50V
				C404	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V



B

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C405	1-163-031-11	CERAMIC CHIP	0.01MF 50V	D303	8-719-400-75	DIODE MA3091	
C406	1-136-169-00	FILM	0.22MF 5% 50V	D304	8-719-400-75	DIODE MA3091	
	1-136-497-81	FILM	0.1MF 5% 50V (KV-S29JN1, S29MN1, S29SN1) (KV-S34JN1, S34MN1, S34SN1)	D305	8-719-400-75	DIODE MA3091	
C407	1-164-004-11	CERAMIC CHIP	0.1MF 10% 25V	D306	8-719-400-51	DIODE MA3062	
C408	1-126-101-11	ELECT	100MF 20% 16V	D307	8-719-400-51	DIODE MA3062	
C409	1-136-169-00	FILM	0.22MF 5% 50V	D308	8-719-800-76	DIODE 1SS226	
	1-136-497-81	FILM	0.1MF 5% 50V (KV-S29JN1, S29MN1, S29SN1) (KV-S34JN1, S34MN1, S34SN1)	D309	8-719-800-76	DIODE 1SS226	
C410	1-137-190-51	FILM	0.22MF 5% 50V	D310	8-719-800-76	DIODE 1SS226	
C411	1-124-903-11	ELECT	1MF 20% 50V	D311	8-719-800-76	DIODE 1SS226	
C412	1-136-153-00	FILM	0.01MF 5% 50V	D312	8-719-800-76	DIODE 1SS226	
C413	1-126-101-11	ELECT	100MF 20% 16V	D313	8-719-800-76	DIODE 1SS226	
C414	1-130-479-00	MYLAR	0.0047MF 5% 50V	D314	8-719-800-76	DIODE 1SS226	
C415	1-136-175-00	FILM	0.68MF 5% 50V	D315	8-719-105-91	DIODE RD5.6M-B2	
C416	1-136-153-00	FILM	0.01MF 5% 50V	D317	8-719-400-84	DIODE MA3110	
C417	1-163-157-00	FILM	0.022MF 5% 50V	D318	8-719-400-84	DIODE MA3110	
C418	1-124-927-11	ELECT	4.7MF 20% 50V	D319	8-719-400-84	DIODE MA3110	
C419	1-163-077-00	CERAMIC CHIP	0.1MF 10% 25V	D320	8-719-400-84	DIODE MA3110	
C422	1-124-902-00	ELECT	0.47MF 20% 50V	D322	8-719-800-76	DIODE 1SS226	
C423	1-124-902-00	ELECT	0.47MF 20% 50V	D323	8-719-105-91	DIODE RD5.6M-B2	
C424	1-124-463-00	ELECT	0.1MF 20% 50V	D324	8-719-800-76	DIODE 1SS226	
C425	1-126-530-11	ELECT	22MF 20% 50V	D328	8-719-800-76	DIODE 1SS226	
C426	1-126-101-11	ELECT	100MF 20% 16V	D329	8-719-800-76	DIODE 1SS226	
C427	1-163-031-11	CERAMIC CHIP	0.01MF 50V	D330	8-719-800-76	DIODE 1SS226	
C428	1-136-497-81	FILM	0.1MF 5% 50V	D331	8-719-800-76	DIODE 1SS226	
C429	1-126-101-11	ELECT	100MF 20% 16V	D332	8-719-800-76	DIODE 1SS226	
C430	1-126-101-11	ELECT	100MF 20% 16V	D333	8-719-800-76	DIODE 1SS226	
C434	1-101-880-00	CERAMIC	47PF 5% 50V	D334	8-719-800-76	DIODE 1SS226	
C438	1-124-477-11	ELECT	47MF 20% 16V	D335	8-719-400-46	DIODE MA3056-L	
C439	1-126-101-11	ELECT	100MF 20% 16V	D336	8-719-800-76	DIODE 1SS226	
C440	1-124-903-11	ELECT	1MF 20% 50V	D337	8-719-800-76	DIODE 1SS226	
C441	1-124-907-11	ELECT	10MF 20% 50V	D338	8-719-800-76	DIODE 1SS226	
C442	1-124-927-11	ELECT	4.7MF 20% 50V	D339	8-719-800-76	DIODE 1SS226	
C443	1-163-133-00	CERAMIC CHIP	470PF 5% 50V	D340	8-719-800-76	DIODE 1SS226	
C444	1-124-902-00	ELECT	0.47MF 20% 50V	D341	8-719-800-76	DIODE 1SS226	
C445	1-164-004-11	CERAMIC CHIP	0.1MF 10% 25V	D427	8-719-800-76	DIODE 1SS226	
C446	1-163-009-11	CERAMIC CHIP	0.001MF 10% 50V	D428	8-719-800-76	DIODE 1SS226	
C447	1-163-009-11	CERAMIC CHIP	0.001MF 10% 50V	D429	8-719-800-76	DIODE 1SS226	
C450	1-124-902-00	ELECT	0.47MF 20% 50V	D430	8-719-800-76	DIODE 1SS226	
C452	1-102-959-00	CERAMIC	22PF 5% 50V	D431	8-719-800-76	DIODE 1SS226	
<CONNECTOR>				D432	8-719-800-76	DIODE 1SS226	
CN301	*1-573-962-11	CONNECTOR (MALE) 50P		D433	8-719-800-76	DIODE 1SS226	
CN302	*1-564-509-11	PLUG, CONNECTOR 6P		D434	8-719-800-76	DIODE 1SS226	
CN303	*1-573-962-11	CONNECTOR (MALE) 50P		D435	8-719-800-76	DIODE 1SS226	
CN305	*1-564-516-11	PLUG, CONNECTOR 13P		D436	8-719-800-76	DIODE 1SS226	
CN306	*1-564-513-11	PLUG, CONNECTOR 10P		D437	8-719-800-76	DIODE 1SS226	
CN307	*1-564-514-11	PLUG, CONNECTOR 11P		D439	8-719-800-76	DIODE 1SS226	
CN308	*1-565-930-11	CONNECTOR (RECEPTACLE) 30P		D442	8-719-800-76	DIODE 1SS226	
CN309	*1-566-367-11	CONNECTOR, HINGE (RECEPTACLE)		D448	8-719-800-76	DIODE 1SS226	
<TRIMMER>				D450	8-719-800-76	DIODE 1SS226	
CT303	1-141-245-00	TRIMMER, CERAMIC		D451	8-719-106-44	DIODE RD9.1M-B2	
CT304	1-141-245-00	TRIMMER, CERAMIC		D452	8-719-106-44	DIODE RD9.1M-B2	
<DIODE>				D453	8-719-106-44	DIODE RD9.1M-B2	
D301	8-719-400-75	DIODE MA3091		<DELAY LINE>			
D302	8-719-400-75	DIODE MA3091		DL301	1-415-914-11	DELAY LINE	
<IC>				<IC>			
IC301	8-752-056-50	IC CXA1545S		IC301	8-752-056-50	IC CXA1545S	
IC302	8-759-008-67	IC MC14066BF		IC302	8-759-008-67	IC MC14066BF	
IC303	8-752-058-68	IC CXA1315M		IC303	8-752-058-68	IC CXA1315M	
IC304	8-759-008-67	IC MC14066BF		IC304	8-759-008-67	IC MC14066BF	
IC305	8-752-012-52	IC CX20125		IC305	8-752-012-52	IC CX20125	

B

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
IC306	8-759-800-81	IC LA7016		Q329	8-729-230-46	TRANSISTOR 2SA1162-YG	
IC307	8-752-037-15	IC CXA1387S		Q330	8-729-230-46	TRANSISTOR 2SA1162-YG	
IC308	8-759-009-06	IC MC14052BF		Q331	8-729-230-46	TRANSISTOR 2SA1162-YG	
IC309	8-759-011-65	IC MC74HC4053F		Q332	8-729-230-46	TRANSISTOR 2SA1162-YG	
IC310	8-759-009-06	IC MC14052BF		Q333	8-729-900-89	TRANSISTOR DTC1144ES	
IC311	8-759-013-86	IC MC74HC4066F		Q335	8-729-230-49	TRANSISTOR 2SC2712-YG	
IC312	8-759-013-86	IC MC74HC4066F		Q336	8-729-230-49	TRANSISTOR 2SC2712-YG	
IC313	8-759-800-81	IC LA7016		Q337	8-729-230-49	TRANSISTOR 2SC2712-YG	
IC314	8-759-802-23	IC L780512		Q338	8-729-230-49	TRANSISTOR 2SC2712-YG	
	4-382-854-11	SCREW (M3X10), P, SW (+); IC314		Q339	8-729-900-53	TRANSISTOR DTC1144EK	
IC315	8-759-521-22	IC TDA4650/V4		Q340	8-729-230-49	TRANSISTOR 2SC2712-YG	
IC316	8-759-505-39	IC TDA4660V2		Q341	8-729-900-53	TRANSISTOR DTC1144EK	
IC317	8-759-009-46	IC MC145288F		Q342	8-729-900-53	TRANSISTOR DTC1144EK	
IC318	8-759-517-43	IC TDA4580-V7		Q343	8-729-230-49	TRANSISTOR 2SC2712-YG	
IC319	8-759-909-70	IC CX23025		Q344	8-729-900-53	TRANSISTOR DTC1144EK	
IC320	8-759-513-48	IC TDA2595/V9		Q345	8-729-230-49	TRANSISTOR 2SC2712-YG	
IC321	8-759-011-65	IC MC74HC4053F		Q346	8-729-230-49	TRANSISTOR 2SC2712-YG	
IC322	8-759-800-81	IC LA7016		Q347	8-729-230-49	TRANSISTOR 2SC2712-YG	
<COIL>				Q348	8-729-230-49	TRANSISTOR 2SC2712-YG	
L301	1-410-473-11	INDUCTOR 18UH		Q349	8-729-230-49	TRANSISTOR 2SC2712-YG	
L302	1-410-473-11	INDUCTOR 18UH		Q350	8-729-230-49	TRANSISTOR 2SC2712-YG	
L303	1-410-667-31	INDUCTOR 22UH		Q351	8-729-230-49	TRANSISTOR 2SC2712-YG	
L304	1-404-554-11	COIL		Q354	8-729-230-49	TRANSISTOR 2SC2712-YG	
L305	1-410-466-41	INDUCTOR 4.7UH		Q356	8-729-230-49	TRANSISTOR 2SC2712-YG	
L306	1-408-421-00	INDUCTOR 100UH		Q357	8-729-230-49	TRANSISTOR 2SC2712-YG	
L307	1-408-421-00	INDUCTOR 100UH		Q358	8-729-230-49	TRANSISTOR 2SC2712-YG	
L308	1-410-466-41	INDUCTOR 4.7UH		Q359	8-729-230-49	TRANSISTOR 2SC2712-YG	
L309	1-410-466-41	INDUCTOR 4.7UH		Q360	8-729-230-49	TRANSISTOR 2SC2712-YG	
L310	1-410-466-41	INDUCTOR 4.7UH		Q361	8-729-230-49	TRANSISTOR 2SC2712-YG	
L311	1-410-466-41	INDUCTOR 4.7UH		Q362	8-729-230-49	TRANSISTOR 2SC2712-YG	
L312	1-408-417-00	INDUCTOR 47UH		Q365	8-729-230-49	TRANSISTOR 2SC2712-YG	
<TRANSISTOR>				Q366	8-729-230-46	TRANSISTOR 2SA1162-YG	
Q301	8-729-230-49	TRANSISTOR 2SC2712-YG		Q367	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q302	8-729-230-49	TRANSISTOR 2SC2712-YG		Q368	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q303	8-729-230-46	TRANSISTOR 2SA1162-YG		Q369	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q304	8-729-230-46	TRANSISTOR 2SA1162-YG		Q370	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q305	8-729-230-46	TRANSISTOR 2SA1162-YG		Q371	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q306	8-729-230-46	TRANSISTOR 2SA1162-YG		Q372	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q307	8-729-230-46	TRANSISTOR 2SA1162-YG		Q373	8-729-230-46	TRANSISTOR 2SA1162-YG	
Q308	8-729-230-46	TRANSISTOR 2SA1162-YG		Q374	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q309	8-729-230-46	TRANSISTOR 2SA1162-YG		Q375	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q310	8-729-230-46	TRANSISTOR 2SA1162-YG		Q376	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q311	8-729-230-46	TRANSISTOR 2SA1162-YG		Q377	8-729-230-46	TRANSISTOR 2SA1162-YG	
Q312	8-729-230-46	TRANSISTOR 2SA1162-YG		Q378	8-729-230-46	TRANSISTOR 2SA1162-YG	
Q313	8-729-230-46	TRANSISTOR 2SA1162-YG		Q379	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q314	8-729-230-46	TRANSISTOR 2SA1162-YG		Q380	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q315	8-729-230-46	TRANSISTOR 2SA1162-YG		Q381	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q316	8-729-230-46	TRANSISTOR 2SA1162-YG		Q382	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q317	8-729-230-46	TRANSISTOR 2SA1162-YG		Q385	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q318	8-729-230-46	TRANSISTOR 2SA1162-YG		Q386	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q319	8-729-230-46	TRANSISTOR 2SA1162-YG		Q387	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q320	8-729-230-49	TRANSISTOR 2SC2712-YG		Q389	8-729-901-04	TRANSISTOR DTA1144EK	
Q321	8-729-230-46	TRANSISTOR 2SA1162-YG		Q390	8-729-901-04	TRANSISTOR DTA1144EK	
Q322	8-729-901-00	TRANSISTOR DTC124EK		Q391	8-729-901-04	TRANSISTOR DTA1144EK	
Q323	8-729-901-00	TRANSISTOR DTC124EK		Q392	8-729-901-04	TRANSISTOR DTA1144EK	
Q324	8-729-230-46	TRANSISTOR 2SA1162-YG		Q393	8-729-900-53	TRANSISTOR DTC1144EK	
Q325	8-729-230-49	TRANSISTOR 2SC2712-YG		Q394	8-729-900-53	TRANSISTOR DTC1144EK	
Q326	8-729-230-49	TRANSISTOR 2SC2712-YG		Q395	8-729-900-53	TRANSISTOR DTC1144EK	
Q327	8-729-230-49	TRANSISTOR 2SC2712-YG		Q396	8-729-230-46	TRANSISTOR 2SA1162-YG	
Q328	8-729-230-46	TRANSISTOR 2SA1162-YG		Q397	8-729-230-49	TRANSISTOR 2SC2712-YG	
				Q398	8-729-230-46	TRANSISTOR 2SA1162-YG	
				Q399	8-729-230-49	TRANSISTOR 2SC2712-YG	

B

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
Q400	8-729-230-46	TRANSISTOR 2SA1162-YG		R348	1-216-073-00	METAL GLAZE 10K 5%	1/10W
Q401	8-729-230-46	TRANSISTOR 2SA1162-YG		R349	1-216-295-00	METAL GLAZE 0 5%	1/10W
Q402	8-729-230-46	TRANSISTOR 2SA1162-YG		R350	1-216-041-00	METAL GLAZE 470 5%	1/10W
Q403	8-729-230-46	TRANSISTOR 2SA1162-YG					
Q404	8-729-808-36	TRANSISTOR 2SK669		R351	1-216-073-00	METAL GLAZE 10K 5%	1/10W
Q405	8-729-230-49	TRANSISTOR 2SC2712-YG		R352	1-216-049-00	METAL GLAZE 1K 5%	1/10W
Q406	8-729-230-49	TRANSISTOR 2SC2712-YG		R353	1-216-051-00	METAL GLAZE 1.2K 5%	1/10W
Q407	8-729-230-49	TRANSISTOR 2SC2712-YG		R354	1-216-033-00	METAL GLAZE 220 5%	1/10W
Q408	8-729-900-53	TRANSISTOR DTC114EK		R355	1-216-033-00	METAL GLAZE 220 5%	1/10W
Q409	8-729-901-01	TRANSISTOR DTC144EK					
Q410	8-729-230-49	TRANSISTOR 2SC2712-YG		R356	1-216-073-00	METAL GLAZE 10K 5%	1/10W
Q441	8-729-230-46	TRANSISTOR 2SA1162-YG		R357	1-216-073-00	METAL GLAZE 10K 5%	1/10W
Q442	8-729-230-49	TRANSISTOR 2SC2712-YG		R358	1-216-051-00	METAL GLAZE 1.2K 5%	1/10W
Q443	8-729-230-49	TRANSISTOR 2SC2712-YG		R359	1-216-073-00	METAL GLAZE 10K 5%	1/10W
				R360	1-216-049-00	METAL GLAZE 1K 5%	1/10W
<RESISTOR>							
R301	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W	R361	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R302	1-216-049-00	METAL GLAZE 1K 5%	1/10W	R362	1-216-041-00	METAL GLAZE 470 5%	1/10W
R303	1-216-049-00	METAL GLAZE 1K 5%	1/10W	R363	1-216-111-00	METAL GLAZE 390K 5%	1/10W
R304	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W	R364	1-216-041-00	METAL GLAZE 470 5%	1/10W
R305	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W	R365	1-216-081-00	METAL GLAZE 22K 5%	1/10W
R306	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W	R366	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R307	1-216-035-00	METAL GLAZE 270 5%	1/10W	R367	1-216-075-00	METAL GLAZE 12K 5%	1/10W
R308	1-216-025-00	METAL GLAZE 100 5%	1/10W	R368	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R309	1-216-035-00	METAL GLAZE 270 5%	1/10W	R369	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R310	1-216-049-00	METAL GLAZE 1K 5%	1/10W	R370	1-216-025-00	METAL GLAZE 100 5%	1/10W
R311	1-216-049-00	METAL GLAZE 1K 5%	1/10W	R371	1-216-025-00	METAL GLAZE 100 5%	1/10W
R312	1-216-025-00	METAL GLAZE 100 5%	1/10W	R372	1-216-025-00	METAL GLAZE 100 5%	1/10W
R313	1-216-025-00	METAL GLAZE 100 5%	1/10W	R373	1-216-025-00	METAL GLAZE 100 5%	1/10W
R314	1-220-269-91	METAL GLAZE 330 5%	1/2W	R374	1-216-025-00	METAL GLAZE 100 5%	1/10W
R315	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W	R375	1-216-035-00	METAL GLAZE 270 5%	1/10W
R316	1-216-025-00	METAL GLAZE 100 5%	1/10W	R376	1-216-035-00	METAL GLAZE 270 5%	1/10W
R317	1-216-025-00	METAL GLAZE 100 5%	1/10W	R377	1-216-035-00	METAL GLAZE 270 5%	1/10W
R318	1-216-025-00	METAL GLAZE 100 5%	1/10W	R378	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R319	1-220-269-91	METAL GLAZE 330 5%	1/2W	R379	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R320	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W	R380	1-216-061-00	METAL GLAZE 3.3K 5%	1/10W
R321	1-216-025-00	METAL GLAZE 100 5%	1/10W	R381	1-216-037-00	METAL GLAZE 330 5%	1/10W
R322	1-216-025-00	METAL GLAZE 100 5%	1/10W	R383	1-216-089-00	METAL GLAZE 47K 5%	1/10W
R323	1-220-269-91	METAL GLAZE 330 5%	1/2W	R384	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R324	1-216-035-00	METAL GLAZE 270 5%	1/10W	R385	1-216-069-00	METAL GLAZE 6.8K 5%	1/10W
R325	1-216-025-00	METAL GLAZE 100 5%	1/10W	R386	1-216-059-00	METAL GLAZE 2.7K 5%	1/10W
R326	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W	R387	1-216-091-00	METAL GLAZE 56K 5%	1/10W
R327	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W	R388	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R328	1-216-025-00	METAL GLAZE 100 5%	1/10W	R389	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R329	1-216-033-00	METAL GLAZE 220 5%	1/10W	R390	1-259-880-11	CARBON 2.2M 5%	1/4W
R330	1-216-025-00	METAL GLAZE 100 5%	1/10W	R391	1-216-041-00	METAL GLAZE 470 5%	1/10W
R331	1-216-035-00	METAL GLAZE 270 5%	1/10W	R392	1-216-075-00	METAL GLAZE 12K 5%	1/10W
R332	1-216-033-00	METAL GLAZE 220 5%	1/10W	R393	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R333	1-216-025-00	METAL GLAZE 100 5%	1/10W	R394	1-216-051-00	METAL GLAZE 1.2K 5%	1/10W
R334	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W	R395	1-216-039-00	METAL GLAZE 390 5%	1/10W
R335	1-216-025-00	METAL GLAZE 100 5%	1/10W	R396	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R336	1-216-025-00	METAL GLAZE 100 5%	1/10W	R397	1-216-067-00	METAL GLAZE 5.6K 5%	1/10W
R337	1-220-269-91	METAL GLAZE 330 5%	1/2W	R398	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
R338	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W	R399	1-216-047-00	METAL GLAZE 820 5%	1/10W
R339	1-216-033-00	METAL GLAZE 220 5%	1/10W	R400	1-216-033-00	METAL GLAZE 220 5%	1/10W
R340	1-216-025-00	METAL GLAZE 100 5%	1/10W	R401	1-216-033-00	METAL GLAZE 220 5%	1/10W
R341	1-216-025-00	METAL GLAZE 100 5%	1/10W	R402	1-216-113-00	METAL GLAZE 470K 5%	1/10W
R342	1-216-025-00	METAL GLAZE 100 5%	1/10W	R403	1-216-113-00	METAL GLAZE 470K 5%	1/10W
R343	1-216-049-00	METAL GLAZE 1K 5%	1/10W	R404	1-216-113-00	METAL GLAZE 470K 5%	1/10W
R344	1-216-049-00	METAL GLAZE 1K 5%	1/10W	R405	1-216-113-00	METAL GLAZE 470K 5%	1/10W
R345	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W	R406	1-216-113-00	METAL GLAZE 470K 5%	1/10W
R346	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W	R407	1-216-081-00	METAL GLAZE 22K 5%	1/10W
R347	1-216-073-00	METAL GLAZE 10K 5%	1/10W	R408	1-216-033-00	METAL GLAZE 220 5%	1/10W
				R409	1-216-021-00	METAL GLAZE 68 5%	1/10W
				R410	1-216-021-00	METAL GLAZE 68 5%	1/10W
				R411	1-216-021-00	METAL GLAZE 68 5%	1/10W

B

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R412	1-216-025-00	METAL GLAZE	100 5% 1/10W	R479	1-216-035-00	METAL GLAZE	270 5% 1/10W
R413	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R480	1-216-035-00	METAL GLAZE	270 5% 1/10W
R414	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R481	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W
R415	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R483	1-216-001-00	METAL GLAZE	10 5% 1/10W
R417	1-216-041-00	METAL GLAZE	470 5% 1/10W	R484	1-216-035-00	METAL GLAZE	270 5% 1/10W
R418	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R485	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R419	1-216-295-00	METAL GLAZE	0 5% 1/10W	R486	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R420	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R487	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
R421	1-216-047-00	METAL GLAZE	820 5% 1/10W	R489	1-216-001-00	METAL GLAZE	10 5% 1/10W
R422	1-216-295-00	METAL GLAZE	0 5% 1/10W	R491	1-216-677-11	METAL CHIP	12K 0.50% 1/10W
R423	1-216-047-00	METAL GLAZE	820 5% 1/10W	R492	1-216-677-11	METAL CHIP	12K 0.50% 1/10W
R424	1-216-035-00	METAL GLAZE	270 5% 1/10W	R494	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
R425	1-216-047-00	METAL GLAZE	820 5% 1/10W	R495	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R426	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R496	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
R427	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R497	1-216-033-00	METAL GLAZE	220 5% 1/10W
R428	1-216-051-00	METAL GLAZE	1.2K 5% 1/10W	R498	1-216-077-00	METAL GLAZE	15K 5% 1/10W
R429	1-216-035-00	METAL GLAZE	270 5% 1/10W	R499	1-216-077-00	METAL GLAZE	15K 5% 1/10W
R430	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R500	1-216-063-00	METAL GLAZE	3.9K 5% 1/10W
R431	1-216-047-00	METAL GLAZE	820 5% 1/10W	R501	1-216-055-00	METAL GLAZE	1.8K 5% 1/10W
R433	1-216-055-00	METAL GLAZE	1.8K 5% 1/10W	R502	1-216-121-00	METAL GLAZE	1M 5% 1/10W
R434	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R503	1-216-085-00	METAL GLAZE	33K 5% 1/10W
R435	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R504	1-216-055-00	METAL GLAZE	1.8K 5% 1/10W
R436	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R505	1-216-055-00	METAL GLAZE	1.8K 5% 1/10W
R437	1-216-025-00	METAL GLAZE	100 5% 1/10W	R506	1-216-033-00	METAL GLAZE	220 5% 1/10W
R438	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R507	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
R439	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W	R508	1-216-075-00	METAL GLAZE	12K 5% 1/10W
R440	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W	R509	1-216-077-00	METAL GLAZE	15K 5% 1/10W
R441	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R510	1-216-033-00	METAL GLAZE	220 5% 1/10W
R442	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	R511	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R443	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W	R512	1-216-099-00	METAL GLAZE	120K 5% 1/10W
R444	1-216-051-00	METAL GLAZE	1.2K 5% 1/10W	R513	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R445	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R514	1-216-097-00	METAL GLAZE	100K 5% 1/10W
R446	1-216-295-00	METAL GLAZE	0 5% 1/10W	R515	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R447	1-216-079-00	METAL GLAZE	18K 5% 1/10W	R516	1-216-109-00	METAL GLAZE	330K 5% 1/10W
R448	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R517	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R449	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R518	1-216-047-00	METAL GLAZE	820 5% 1/10W
R451	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R519	1-216-045-00	METAL GLAZE	680 5% 1/10W
R452	1-216-041-00	METAL GLAZE	470 5% 1/10W	R520	1-216-033-00	METAL GLAZE	220 5% 1/10W
R453	1-216-039-00	METAL GLAZE	390 5% 1/10W	R521	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R454	1-216-039-00	METAL GLAZE	390 5% 1/10W	R522	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R455	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R523	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R456	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R524	1-216-097-00	METAL GLAZE	100K 5% 1/10W
R457	1-216-089-00	METAL GLAZE	47K 5% 1/10W	R525	1-216-097-00	METAL GLAZE	100K 5% 1/10W
R458	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R526	1-216-079-00	METAL GLAZE	18K 5% 1/10W
R459	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R527	1-216-097-00	METAL GLAZE	100K 5% 1/10W
R460	1-216-033-00	METAL GLAZE	220 5% 1/10W	R528	1-216-033-00	METAL GLAZE	220 5% 1/10W
R461	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R529	1-216-033-00	METAL GLAZE	220 5% 1/10W
R462	1-216-097-00	METAL GLAZE	100K 5% 1/10W	R530	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R463	1-216-089-00	METAL GLAZE	47K 5% 1/10W	R531	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R464	1-216-025-00	METAL GLAZE	100 5% 1/10W	R532	1-216-033-00	METAL GLAZE	220 5% 1/10W
R465	1-216-109-00	METAL GLAZE	330K 5% 1/10W	R534	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R466	1-216-109-00	METAL GLAZE	330K 5% 1/10W	R535	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W
R467	1-216-071-00	METAL GLAZE	8.2K 5% 1/10W	R536	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R468	1-216-043-00	METAL GLAZE	560 5% 1/10W	R537	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W
R469	1-216-025-00	METAL GLAZE	100 5% 1/10W	R538	1-216-033-00	METAL GLAZE	220 5% 1/10W
R470	1-216-121-00	METAL GLAZE	1M 5% 1/10W	R539	1-216-047-00	METAL GLAZE	820 5% 1/10W
R471	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R540	1-216-045-00	METAL GLAZE	680 5% 1/10W
R472	1-216-043-00	METAL GLAZE	560 5% 1/10W	R541	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R473	1-216-025-00	METAL GLAZE	100 5% 1/10W	R542	1-216-105-00	METAL GLAZE	220K 5% 1/10W
R474	1-216-043-00	METAL GLAZE	560 5% 1/10W	R543	1-216-105-00	METAL GLAZE	220K 5% 1/10W
R475	1-216-025-00	METAL GLAZE	100 5% 1/10W	R544	1-216-105-00	METAL GLAZE	220K 5% 1/10W
R476	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R545	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W
R477	1-216-033-00	METAL GLAZE	220 5% 1/10W	R546	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W
R478	1-216-035-00	METAL GLAZE	270 5% 1/10W				

REMARK	REF. NO.	PART NO.	DESCRIPTION				REMARK
	R623	1-216-047-00	METAL GLAZE	820	5%	1/10W	
	R624	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W	
	R625	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
	R627	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
	R628	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
	R629	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
	R630	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
	R631	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
	R632	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
	R633	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
	R634	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
	R635	1-216-085-00	METAL GLAZE	33K	5%	1/10W	
	R636	1-216-085-00	METAL GLAZE	33K	5%	1/10W	
	R637	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
	R638	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
	R639	1-216-295-00	METAL GLAZE	0	5%	1/10W	
	R640	1-216-085-00	METAL GLAZE	33K	5%	1/10W	
	R641	1-216-063-00	METAL GLAZE	3.9K	5%	1/10W	
	R642	1-216-077-00	METAL GLAZE	15K	5%	1/10W	
	R643	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
	R644	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
	R645	1-216-075-00	METAL GLAZE	12K	5%	1/10W	
	R646	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
	R647	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
	R648	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
	R649	1-216-085-00	METAL GLAZE	33K	5%	1/10W	
	R650	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
	R651	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
	R653	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
	R654	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
	R655	1-216-035-00	METAL GLAZE	270	5%	1/10W	
	R657	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
	<VARIABLE RESISTOR>						
	RV301	1-241-119-11	RES, ADJ, CARBON	1K			
	RV302	1-241-632-11	RES, ADJ, CARBON	47K			
	<TRANSFORMER>						
	T301	1-404-584-11	COIL				
	<CRYSTAL>						
	X303	1-527-789-00	VINRATOR, CRYSTAL				
	X304	1-567-413-11	VIBRATOR, CRYSTAL				
	<MODULE>						
	YCM301	1-239-356-11	MODULE, TRAP				
	*****						
	*A-1135-719-A	BI BOARD, COMPLETE					
	*****						
	4-382-854-11	SCREW (M3X10), P, SW (+)					
	<CAPACITOR>						
	C2501	1-126-101-11	ELECT	100MF	20%	16V	
	C2502	1-124-122-11	ELECT	100MF	20%	50V	
	C2503	1-124-907-11	ELECT	10MF	20%	50V	
	C2504	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V	

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C2505	1-124-477-11	ELECT 47MF	20% 16V	FL2501	1-236-164-11	ENCAPSULATED COMPONENT	
C2506	1-124-907-11	ELECT 10MF	20% 50V	FL2502	1-236-164-11	ENCAPSULATED COMPONENT	
C2507	1-163-093-00	CERAMIC CHIP 10PF	5% 50V	FL2503	1-236-620-11	FILTER, LOW PASS	
C2508	1-163-105-00	CERAMIC CHIP 33PF	5% 50V	FL2504	1-236-620-11	FILTER, LOW PASS	
C2511	1-126-101-11	ELECT 100MF	20% 16V	FL2505	1-236-620-11	FILTER, LOW PASS	
C2512	1-124-925-11	ELECT 2.2MF	20% 50V			<IC>	
C2513	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V	IC2501	8-752-062-80	IC CXA1686M	
C2514	1-124-902-00	ELECT 0.47MF	20% 50V	IC2502	8-741-692-01	IC SBX1692-01	
C2515	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	IC2503	8-759-802-18	IC L780S05	
C2516	1-163-117-00	CERAMIC CHIP 100PF	5% 50V			<COIL>	
C2517	1-163-809-11	CERAMIC CHIP 0.047MF	10% 25V	L2501	1-410-484-11	INDUCTOR 150UH	
C2518	1-163-809-11	CERAMIC CHIP 0.047MF	10% 25V	L2502	1-410-466-41	INDUCTOR 4.7UH	
C2519	1-126-101-11	ELECT 100MF	20% 16V	L2503	1-410-466-41	INDUCTOR 4.7UH	
C2520	1-126-101-11	ELECT 100MF	20% 16V	L2505	1-410-466-41	INDUCTOR 4.7UH	
C2521	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V			<TRANSISTOR>	
C2522	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	Q2501	8-729-230-49	TRANSISTOR 2SC2712-YG	
C2523	1-163-809-11	CERAMIC CHIP 0.047MF	10% 25V	Q2502	8-729-230-49	TRANSISTOR 2SC2712-YG	
C2524	1-124-443-00	ELECT 100MF	20% 10V	Q2503	8-729-230-49	TRANSISTOR 2SC2712-YG	
C2525	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	Q2504	8-729-230-49	TRANSISTOR 2SC2712-YG	
C2526	1-126-101-11	ELECT 100MF	20% 16V	Q2505	8-729-230-49	TRANSISTOR 2SC2712-YG	
C2527	1-124-907-11	ELECT 10MF	20% 50V	Q2506	8-729-230-46	TRANSISTOR 2SA1162-YG	
C2528	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	Q2507	8-729-230-46	TRANSISTOR 2SA1162-YG	
C2529	1-124-472-11	ELECT 470MF	20% 10V	Q2510	8-729-901-00	TRANSISTOR DTC124EK	
C2530	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	Q2511	8-729-230-46	TRANSISTOR 2SA1162-YG	
C2531	1-163-038-00	CERAMIC CHIP 0.1MF	25V	Q2512	8-729-230-49	TRANSISTOR 2SC2712-YG	
C2532	1-124-907-11	ELECT 10MF	20% 50V	Q2513	8-729-230-49	TRANSISTOR 2SC2712-YG	
C2533	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	Q2514	8-729-230-46	TRANSISTOR 2SA1162-YG	
C2534	1-124-907-11	ELECT 10MF	20% 50V	Q2515	8-729-230-46	TRANSISTOR 2SA1162-YG	
C2535	1-124-907-11	ELECT 10MF	20% 50V	Q2516	8-729-230-49	TRANSISTOR 2SC2712-YG	
C2536	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	Q2517	8-729-901-01	TRANSISTOR DTC144EK	
C2537	1-124-443-00	ELECT 100MF	20% 10V	Q2518	8-729-230-49	TRANSISTOR 2SC2712-YG	
C2538	1-124-907-11	ELECT 10MF	20% 50V	Q2519	8-729-230-49	TRANSISTOR 2SC2712-YG	
C2539	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	Q2520	8-729-230-49	TRANSISTOR 2SC2712-YG	
C2540	1-163-809-11	CERAMIC CHIP 0.047MF	10% 25V			<RESISTOR>	
C2541	1-163-137-00	CERAMIC CHIP 680PF	5% 50V	R2501	1-216-037-00	METAL GLAZE 330 5% 1/10W	
C2542	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	R2502	1-216-035-00	METAL GLAZE 270 5% 1/10W	
C2543	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	R2503	1-216-053-00	METAL GLAZE 1.5K 5% 1/10W	
C2544	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	R2504	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
C2545	1-124-472-11	ELECT 470MF	20% 10V	R2505	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
C2546	1-163-133-00	CERAMIC CHIP 470PF	5% 50V	R2506	1-216-037-00	METAL GLAZE 330 5% 1/10W	
C2547	1-126-101-11	ELECT 100MF	20% 16V	R2507	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
C2548	1-124-472-11	ELECT 470MF	20% 10V	R2508	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
C2549	1-101-880-00	CERAMIC 47PF	5% 50V	R2509	1-216-055-00	METAL GLAZE 1.8K 5% 1/10W	
C2550	1-136-497--B	FILM 0.1MF	5% 50V	R2510	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
C2551	1-126-101-11	ELECT 100MF	20% 16V	R2511	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
C2552	1-164-161-11	CERAMIC CHIP 0.0022MF	10% 50V	R2512	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
		<CONNECTOR>		R2513	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
CN2501*1	564-516-11	PLUG, CONNECTOR 13P		R2514	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
		<TRIMMER>		R2515	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
CV2501	1-141-245-00	TRIMMER, CERAMIC		R2516	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
CV2502	1-141-245-00	TRIMMER, CERAMIC		R2517	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
		<DIODE>		R2518	1-216-085-00	METAL GLAZE 33K 5% 1/10W	
D2501	8-719-800-76	DIODE 1SS226		R2519	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
D2503	8-719-800-76	DIODE 1SS226		R2520	1-216-069-00	METAL GLAZE 6.8K 5% 1/10W	
		<FILTER>		R2521	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
				R2522	1-216-039-00	METAL GLAZE 390 5% 1/10W	
				R2523	1-216-049-00	METAL GLAZE 1K 5% 1/10W	



The components identified by shading and mark  $\Delta$  are critical for safety.  
Replace only with part number specified.

B1

F

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R2524	1-216-077-00	METAL GLAZE	15K 5% 1/10W	C610	1-124-514-11	ELECT	100MF 20% 50V
R2525	1-216-071-00	METAL GLAZE	8.2K 5% 1/10W	C611	1-137-571-91	FILM	0.1MF 5% 50V
R2526	1-216-043-00	METAL GLAZE	560 5% 1/10W	C612	1-104-350-11	ELECT	1000MF 20% 250V
R2527	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W	C613	1-104-350-11	ELECT	1000MF 20% 250V
R2530	1-216-295-00	METAL GLAZE	0 5% 1/10W	C614	1-164-644-11	CERAMIC	330PF 10% 500V
R2531	1-216-051-00	METAL GLAZE	1.2K 5% 1/10W	C615	1-164-644-11	CERAMIC	330PF 10% 500V
R2533	1-216-073-00	METAL GLAZE	10K 5% 1/10W	C616	1-136-175-00	FILM	0.068MF 5% 50V
R2534	1-216-041-00	METAL GLAZE	470 5% 1/10W	C617	1-136-173-00	FILM	0.47MF 5% 50V
R2535	1-216-025-00	METAL GLAZE	100 5% 1/10W	C618	1-136-175-00	FILM	0.068MF 5% 50V
R2536	1-216-039-00	METAL GLAZE	390 5% 1/10W	C619	1-136-173-00	FILM	0.47MF 5% 50V
R2537	1-216-025-00	METAL GLAZE	100 5% 1/10W	C620	1-164-644-11	CERAMIC	330PF 10% 500V
R2538	1-216-039-00	METAL GLAZE	390 5% 1/10W	C621	1-162-318-11	CERAMIC	0.001MF 10% 500V
R2539	1-216-079-00	METAL GLAZE	18K 5% 1/10W	C622	1-137-234-11	FILM	0.0068MF 5% 1.25KV
R2540	1-216-079-00	METAL GLAZE	18K 5% 1/10W	C623	1-137-233-11	FILM	0.0056MF 5% 1.25KV
R2541	1-216-081-00	METAL GLAZE	22K 5% 1/10W	C624	1-137-233-11	FILM	0.0056MF 5% 1.25KV
R2542	1-216-075-00	METAL GLAZE	12K 5% 1/10W	C625	1-124-907-11	ELECT	10MF 20% 50V
R2543	1-216-077-00	METAL GLAZE	15K 5% 1/10W	C626	1-126-803-11	ELECT	47MF 20% 50V
R2544	1-216-077-00	METAL GLAZE	15K 5% 1/10W	C627	1-126-183-11	ELECT	1000MF 20% 16V
R2545	1-216-043-00	METAL GLAZE	560 5% 1/10W	C628	1-124-602-00	ELECT	2200MF 20% 25V
R2546	1-216-043-00	METAL GLAZE	560 5% 1/10W	C629	1-126-101-11	ELECT	100MF 20% 16V
R2547	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	C630	1-136-173-00	FILM	0.47MF 5% 50V
R2548	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	C631	1-124-443-00	ELECT	100MF 20% 10V
R2549	1-216-025-00	METAL GLAZE	100 5% 1/10W	C632	1-124-442-00	ELECT	330MF 20% 6.3V
R2550	1-216-025-00	METAL GLAZE	100 5% 1/10W	C633	1-126-540-91	ELECT	220MF 20% 6.3V
R2551	1-216-033-00	METAL GLAZE	220 5% 1/10W	C634	1-124-607-11	ELECT	2200MF 20% 50V
R2552	1-216-049-00	METAL GLAZE	1K 5% 1/10W	C635	1-124-480-11	ELECT	470MF 20% 25V
R2553	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W	C636	1-126-803-11	ELECT	47MF 20% 50V
R2554	1-216-089-00	METAL GLAZE	47K 5% 1/10W	C637	1-126-103-11	ELECT	470MF 20% 16V
R2555	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W	C639	1-162-117-00	CERAMIC	100PF 10% 500V
R2556	1-216-059-00	METAL GLAZE	2.7K 5% 1/10W	C640	1-126-356-11	ELECT	220MF 20% 160V
R2557	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	C641	1-124-119-00	ELECT	330MF 20% 16V
R2558	1-216-037-00	METAL GLAZE	330 5% 1/10W	C642	1-102-228-00	CERAMIC	470PF 10% 500V
R2559	1-216-075-00	METAL GLAZE	12K 5% 1/10W	C643	1-130-479-00	MYLAR	0.0047MF 5% 50V
R2560	1-216-049-00	METAL GLAZE	1K 5% 1/10W	C644	1-130-491-00	MYLAR	0.047MF 5% 50V
R2561	1-216-081-00	METAL GLAZE	22K 5% 1/10W	C645	1-124-443-00	ELECT	100MF 20% 10V
R2562	1-216-049-00	METAL GLAZE	1K 5% 1/10W	C646	1-124-443-00	ELECT	100MF 20% 10V
R2564	1-216-073-00	METAL GLAZE	10K 5% 1/10W	C647	1-126-101-11	ELECT	100MF 20% 16V
R2565	1-216-295-00	METAL GLAZE	0 5% 1/10W	C648	1-126-101-11	ELECT	100MF 20% 16V
<CRYSTAL>				C649	$\Delta$ 1-164-497-51	CERAMIC	470PF 20% 400V
X2501	1-527-722-00	OSCILLATOR, CRYSTAL		*4-374-846-11 COVER, CAPACITOR, CAP TYPE; C649			
X2502	1-579-057-11	VIBRATOR, CRYSTAL		C650	1-124-480-11	ELECT	470MF 20% 25V
X2503	1-577-611-11	OSCILLATOR, CERAMIC		C651	1-130-471-00	MYLAR	0.001MF 5% 50V
*****				C652	1-136-497-81	FILM	0.1MF 5% 50V
*****				C654	1-137-354-11	FILM	0.01MF 5% 100V
*****				<CONNECTOR>			
*A-1195-056-A F BOARD, COMPLETE				CN601	*1-564-510-11	PLUG, CONNECTOR 7P	
*****				CN602	*1-564-512-11	PLUG, CONNECTOR 9P	
1-533-223-11 CLIP, FUSE				CN603	*1-573-986-11	PIN, CONNECTOR (PC BOARD) 5P	
*4-341-751-01 EYELET (EY100-EY175)				CN604	*1-580-843-11	PIN, CONNECTOR (POWER)	
*4-341-752-01 EYELET (EY1-EY8, EY10-EY40)				CN605	*1-573-963-11	PIN, CONNECTOR (PC BOARD) 3P	
4-363-414-00 SPACER, MICA				CN606	*1-573-963-11	PIN, CONNECTOR (PC BOARD) 3P	
4-382-854-11 SCREW (M3X10), P, SW (+)				CN607	*1-508-786-00	PIN, CONNECTOR (5MM PITCH) 2P	
<CAPACITOR>				CN608	*1-508-784-00	PIN, CONNECTOR (5MM PITCH) 1P	
C601	$\Delta$ 1-136-548-13	FILM	0.1MF 20% 250V	<DIODE>			
C603	$\Delta$ 1-161-830-51	CERAMIC	0.0047MF 500V	D601	8-719-510-53	DIODE D4SB60L	
C604	$\Delta$ 1-161-830-51	CERAMIC	0.0047MF 500V	D602	$\Delta$ 8-719-304-63	DIODE RM11C	
C605	$\Delta$ 1-161-830-51	CERAMIC	0.0047MF 500V	D603	8-719-510-48	DIODE D1N20R	
C606	$\Delta$ 1-161-830-51	CERAMIC	0.0047MF 500V	D604	8-719-510-48	DIODE D1N20R	
C607	1-137-571-91	FILM	0.1MF 5% 50V	D605	8-719-510-48	DIODE D1N20R	
C608	1-136-197-61	FILM	0.047MF 10% 400V				
C609	1-126-406-11	ELECT	2.2MF 20% 400V				



## A2

-128-

A2

A1

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
<TRANSISTOR>				C113	1-163-113-00	CERAMIC CHIP 68PF	5% 50V
Q4401	8-729-920-74	TRANSISTOR 2SC2412K-QR		C114	1-163-121-00	CERAMIC CHIP 150PF	5% 50V
Q4402	8-729-230-46	TRANSISTOR 2SA1162-YG		C115	1-163-031-11	CERAMIC CHIP 0.01MF	50V
Q4403	8-729-230-46	TRANSISTOR 2SA1162-YG		C116	1-163-038-00	CERAMIC CHIP 0.1MF	25V
Q4404	8-729-230-46	TRANSISTOR 2SA1162-YG		C117	1-163-121-00	CERAMIC CHIP 150PF	5% 50V
Q4405	8-729-901-01	TRANSISTOR DTC144EK		C118	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
Q4406	8-729-920-74	TRANSISTOR 2SC2412K-QR		C119	1-136-167-00	FILM 0.15MF	5% 50V
Q4407	8-729-920-74	TRANSISTOR 2SC2412K-QR		C120	1-163-119-00	CERAMIC CHIP 120PF	5% 50V
<RESISTOR>				C121	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
JR4401	1-216-296-00	METAL GLAZE 0 5% 1/8W		C122	1-163-031-11	CERAMIC CHIP 0.01MF	50V
JR4402	1-216-295-00	METAL GLAZE 0 5% 1/10W		C123	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
JR4403	1-216-296-00	METAL GLAZE 0 5% 1/8W		C124	1-163-113-00	CERAMIC CHIP 68PF	5% 50V
JR4404	1-216-296-00	METAL GLAZE 0 5% 1/8W		C125	1-163-038-00	CERAMIC CHIP 0.1MF	25V
JR4405	1-216-295-00	METAL GLAZE 0 5% 1/10W		C126	1-163-031-11	CERAMIC CHIP 0.01MF	50V
JR4406	1-216-295-00	METAL GLAZE 0 5% 1/10W		C127	1-126-101-11	ELECT 100MF	20% 16V
JR4407	1-216-295-00	METAL GLAZE 0 5% 1/10W		C128	1-124-907-11	ELECT 10MF	20% 50V
JR4408	1-216-295-00	METAL GLAZE 0 5% 1/10W		C129	1-126-101-11	ELECT 100MF	20% 16V
JR4409	1-216-296-00	METAL GLAZE 0 5% 1/10W		C130	1-126-101-11	ELECT 100MF	20% 16V
R4401	1-216-073-00	METAL GLAZE 10K 5% 1/10W		C131	1-126-101-11	ELECT 100MF	20% 16V
R4402	1-216-067-00	METAL GLAZE 5.6K 5% 1/10W		C132	1-163-038-00	CERAMIC CHIP 0.1MF	25V
R4403	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W		C133	1-126-101-11	ELECT 100MF	20% 16V
R4404	1-216-079-00	METAL GLAZE 18K 5% 1/10W		C134	1-163-038-00	CERAMIC CHIP 0.1MF	25V
R4405	1-216-093-00	METAL GLAZE 68K 5% 1/10W		C135	1-126-101-11	ELECT 100MF	20% 16V
R4406	1-216-049-00	METAL GLAZE 1K 5% 1/10W		C136	1-163-989-11	CERAMIC CHIP 0.033MF	10% 25V
R4407	1-216-081-00	METAL GLAZE 22K 5% 1/10W		C137	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
R4408	1-216-041-00	METAL GLAZE 470 5% 1/10W		C138	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
R4409	1-216-043-00	METAL GLAZE 560 5% 1/10W		C139	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
R4410	1-216-045-00	METAL GLAZE 680 5% 1/10W		C140	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
R4411	1-216-089-00	METAL GLAZE 47K 5% 1/10W		C141	1-126-101-11	ELECT 100MF	20% 16V
R4412	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W		C142	1-163-989-11	CERAMIC CHIP 0.033MF	10% 25V
R4413	1-216-049-00	METAL GLAZE 1K 5% 1/10W		C143	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
R4414	1-216-049-00	METAL GLAZE 1K 5% 1/10W		C144	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
R4415	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W		C145	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
R4416	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W		C146	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
R4417	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W		C147	1-124-907-11	ELECT 10MF	20% 50V
R4418	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W		C148	1-126-101-11	ELECT 100MF	20% 16V
<CRYSTAL>				C149	1-126-101-11	ELECT 100MF	20% 16V
X4401	1-577-099-11	VIBRATOR, CERAMIC		C150	1-124-907-11	ELECT 10MF	20% 50V
*****				C151	1-126-101-11	ELECT 100MF	20% 16V
*A-1297-031-A A1 BOARD, COMPLETE				C152	1-124-477-11	ELECT 47MF	20% 16V
*****				C153	1-163-031-11	CERAMIC CHIP 0.01MF	50V
<CAPACITOR>				C154	1-126-101-11	ELECT 100MF	20% 16V
C101	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C155	1-126-101-11	ELECT 100MF	20% 16V
C102	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	C156	1-126-101-11	ELECT 100MF	20% 16V
C103	1-124-907-11	ELECT 10MF	20% 50V	C157	1-124-477-11	ELECT 47MF	20% 16V
C104	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C158	1-126-101-11	ELECT 100MF	20% 16V
C105	1-163-031-11	CERAMIC CHIP 0.01MF	50V	C159	1-126-101-11	ELECT 100MF	20% 16V
C106	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	C160	1-124-907-11	ELECT 10MF	20% 50V
C107	1-124-478-11	ELECT 100MF	20% 25V	C201	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C108	1-163-031-11	CERAMIC CHIP 0.01MF	50V	C202	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C109	1-163-123-00	CERAMIC CHIP 180PF	5% 50V	C203	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C110	1-163-123-00	CERAMIC CHIP 180PF	5% 50V	C204	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C111	1-163-833-00	CERAMIC CHIP 0.068MF	10% 25V	C205	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C112	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C206	1-163-031-11	CERAMIC CHIP 0.01MF	50V
				C207	1-216-295-00	METAL GLAZE 0 5% 1/10W	50V
				C208	1-124-903-11	ELECT 1MF	20% 50V
				C209	1-124-477-11	ELECT 47MF	20% 16V
				C210	1-124-477-11	ELECT 47MF	20% 16V
				C211	1-136-485-81	FILM 0.01MF	5% 50V
				C212	1-136-485-81	FILM 0.01MF	5% 50V
				C213	1-126-233-11	ELECT 22MF	20% 50V
				C214	1-126-233-11	ELECT 22MF	20% 50V
				C215	1-136-489-81	FILM 0.022MF	5% 50V

A1

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C216	1-136-497-81	FILM 0.1MF	5% 50V	<DIODE>			
C217	1-136-169-00	FILM 0.22MF	5% 50V	D101	8-719-988-70	DIODE BB405B	
C218	1-136-493-81	FILM 0.047MF	5% 50V	D102	8-719-988-71	DIODE BB809	
C219	1-124-034-51	ELECT 33MF	20% 16V	D103	8-719-400-18	DIODE MA152WK	
C220	1-124-477-11	ELECT 47MF	20% 16V	D104	8-719-400-18	DIODE MA152WK	
C221	1-124-477-11	ELECT 47MF	20% 16V	D105	8-719-914-44	DIODE DAP202K	
C222	1-124-477-11	ELECT 47MF	20% 16V	D107	8-719-400-18	DIODE MA152WK	
C223	1-124-477-11	ELECT 47MF	20% 16V	D108	8-719-914-44	DIODE DAP202K	
C224	1-124-907-11	ELECT 10MF	20% 50V	D109	8-719-911-19	DIODE 1SS119	
C225	1-163-121-00	CERAMIC CHIP 150PF	5% 50V	D110	8-719-911-19	DIODE 1SS119	
C226	1-163-119-00	CERAMIC CHIP 120PF	5% 50V	D201	8-719-400-18	DIODE MA152WK	
C227	1-136-298-00	FILM 0.0033MF	5% 100V	D202	8-719-109-84	DIODE RD5.1ES-B1	
C228	1-106-343-00	MYLAR 0.001MF	10% 100V	<IC>			
C229	1-124-907-11	ELECT 10MF	20% 50V	IC101	8-759-511-88	IC TDA8732	
C230	1-124-903-11	ELECT 1MF	20% 50V	IC102	8-759-511-89	IC SAA7280	
C231	1-124-903-11	ELECT 1MF	20% 50V	IC103	8-759-900-02	IC SN74LS02N	
C232	1-163-119-00	CERAMIC CHIP 120PF	5% 50V	IC104	8-759-900-72	IC NE5532P	
C233	1-124-907-11	ELECT 10MF	20% 50V	IC105	8-759-900-72	IC NE5532P	
C234	1-136-169-00	FILM 0.22MF	5% 50V	IC106	8-759-140-53	IC UPD4053BC	
C235	1-130-479-00	MYLAR 0.0047MF	5% 50V	IC107	8-759-504-22	IC TDA1543	
C236	1-136-485-81	FILM 0.01MF	5% 50V	IC201	8-759-003-90	IC TBA129	
C237	1-124-903-11	ELECT 1MF	20% 50V	IC202	8-759-003-90	IC TBA129	
C238	1-136-169-00	FILM 0.22MF	5% 50V	IC203	8-759-030-48	IC TDA6600-2	
C239	1-124-120-11	ELECT 220MF	20% 16V	IC204	8-759-513-48	IC TDA2595/V9	
C240	1-124-477-11	ELECT 47MF	20% 16V	IC205	8-759-000-49	IC MC14066BCP	
C241	1-124-477-11	ELECT 47MF	20% 16V	IC206	8-759-000-48	IC MC14052BCP	
C242	1-126-096-11	ELECT 10MF	20% 25V	IC207	8-752-057-18	IC CXA1315P	
C243	1-126-096-11	ELECT 10MF	20% 25V	IC208	8-759-142-04	IC UPC7893HF	
C244	1-126-096-11	ELECT 10MF	20% 25V	IC209	8-759-231-53	IC TA7805S	
C245	1-126-096-11	ELECT 10MF	20% 25V	<COIL>			
C246	1-124-034-51	ELECT 33MF	20% 16V	L102	1-410-119-11	INDUCTOR 1MMH	
C247	1-124-229-00	ELECT 33MF	20% 10V	L103	1-410-119-11	INDUCTOR 1MMH	
C248	1-124-034-51	ELECT 33MF	20% 16V	L104	1-407-499-00	INDUCTOR 3.9MMH	
C249	1-124-034-51	ELECT 33MF	20% 16V	L105	1-408-421-00	INDUCTOR 100UH	
C250	1-126-101-11	ELECT 100MF	20% 16V	L106	1-408-421-00	INDUCTOR 100UH	
C253	1-130-495-00	MYLAR 0.1MF	5% 50V	L201	1-408-410-00	INDUCTOR 12UH	
C256	1-163-038-00	CERAMIC CHIP 0.1MF	5% 25V	L202	1-408-410-00	INDUCTOR 12UH	
C257	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	L203	1-410-064-11	INDUCTOR 2.7MMH	
C260	1-163-038-00	CERAMIC CHIP 0.1MF	5% 25V	L204	1-408-421-00	INDUCTOR 100UH	
C265	1-124-034-51	ELECT 33MF	20% 16V	L205	1-408-421-00	INDUCTOR 100UH	
C267	1-124-907-11	ELECT 10MF	20% 50V	<TRANSISTOR>			
C268	1-163-127-00	CERAMIC CHIP 270PF	5% 50V	Q101	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
C269	1-163-038-00	CERAMIC CHIP 0.1MF	5% 25V	Q102	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
C270	1-163-038-00	CERAMIC CHIP 0.1MF	5% 25V	Q103	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
C271	1-163-038-00	CERAMIC CHIP 0.1MF	5% 25V	Q104	8-729-901-01	TRANSISTOR DTC144EK	
<FILTER>				Q106	8-729-901-01	TRANSISTOR DTC144EK	
BPI01	1-236-477-11	FILTER, BAND PASS		Q107	8-729-901-01	TRANSISTOR DTC144EK	
CDA201	1-404-751-11	DISCRIMINATOR, CERAMIC		Q108	8-729-901-01	TRANSISTOR DTC144EK	
CDA202	1-404-750-11	DISCRIMINATOR, CERAMIC		Q109	8-729-901-01	TRANSISTOR DTC144EK	
CFI02	1-404-134-00	TRAP, CERAMIC (5.5MHZ)		Q110	8-729-901-01	TRANSISTOR DTC144EK	
SFT201	1-527-840-00	FILTER, CERAMIC		Q201	8-729-901-01	TRANSISTOR DTC144EK	
SFT202	1-527-839-00	FILTER, CERAMIC		Q202	8-729-901-01	TRANSISTOR DTC144EK	
<CONNECTOR>				Q203	8-729-230-46	TRANSISTOR 2SA1162-YG	
CN101	*1-573-979-11	CONNECTOR, BOARD TO BOARD 11P		Q204	8-729-119-78	TRANSISTOR 2SC2785-HFE	
CN102	*1-573-979-11	CONNECTOR, BOARD TO BOARD 11P		Q205	8-729-119-78	TRANSISTOR 2SC2785-HFE	
<TRIMMER>				Q206	8-729-920-74	TRANSISTOR 2SC2412K-QR	
CV101	1-141-260-00	TRIMMER, CERAMIC					

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
Q217	8-729-920-74	TRANSISTOR 2SC2412K-QR					
<RESISTOR>							
JR1	1-216-295-00	METAL GLAZE	0 5% 1/10W	R158	1-216-085-00	METAL GLAZE	33K 5% 1/10W
JR2	1-216-295-00	METAL GLAZE	0 5% 1/10W	R159	1-216-025-00	METAL GLAZE	100 5% 1/10W
JR3	1-216-295-00	METAL GLAZE	0 5% 1/10W	R160	1-216-085-00	METAL GLAZE	33K 5% 1/10W
JR4	1-216-295-00	METAL GLAZE	0 5% 1/10W	R161	1-216-085-00	METAL GLAZE	33K 5% 1/10W
JR5	1-216-295-00	METAL GLAZE	0 5% 1/10W	R162	1-216-025-00	METAL GLAZE	100 5% 1/10W
JR6	1-216-295-00	METAL GLAZE	0 5% 1/10W	R163	1-216-089-00	METAL GLAZE	47K 5% 1/10W
R101	1-216-039-00	METAL GLAZE	390 5% 1/10W	R164	1-216-234-00	METAL GLAZE	33K 5% 1/8W
R102	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R165	1-216-085-00	METAL GLAZE	33K 5% 1/10W
R103	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R166	1-216-085-00	METAL GLAZE	33K 5% 1/10W
R104	1-216-041-00	METAL GLAZE	470 5% 1/10W	R167	1-216-085-00	METAL GLAZE	33K 5% 1/10W
R105	1-216-011-00	METAL GLAZE	27 5% 1/10W	R168	1-216-011-00	METAL GLAZE	27 5% 1/10W
R106	1-216-638-11	METAL CHIP	300 0.50% 1/10W	R169	1-247-903-00	CARBON	1M 5% 1/4W
R107	1-216-644-11	METAL CHIP	510 0.50% 1/10W	R200	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R108	1-216-063-00	METAL GLAZE	3.9K 5% 1/10W	R201	1-216-045-00	METAL GLAZE	680 5% 1/10W
R109	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W	R202	1-216-043-00	METAL GLAZE	560 5% 1/10W
R110	1-216-047-00	METAL GLAZE	820 5% 1/10W	R203	1-216-043-00	METAL GLAZE	560 5% 1/10W
R111	1-216-041-00	METAL GLAZE	470 5% 1/10W	R204	1-216-045-00	METAL GLAZE	680 5% 1/10W
R112	1-216-051-00	METAL GLAZE	1.2K 5% 1/10W	R205	1-216-043-00	METAL GLAZE	560 5% 1/10W
R113	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W	R206	1-216-043-00	METAL GLAZE	560 5% 1/10W
R115	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W	R208	1-216-097-00	METAL GLAZE	100K 5% 1/10W
R117	1-216-686-11	METAL CHIP	30K 0.50% 1/10W	R209	1-216-097-00	METAL GLAZE	100K 5% 1/10W
R118	1-216-686-11	METAL CHIP	30K 0.50% 1/10W	R210	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R119	1-216-097-00	METAL GLAZE	100K 5% 1/10W	R211	1-216-097-00	METAL GLAZE	100K 5% 1/10W
R120	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R212	1-216-097-00	METAL GLAZE	100K 5% 1/10W
R121	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R213	1-216-059-00	METAL GLAZE	2.7K 5% 1/10W
R122	1-216-063-00	METAL GLAZE	3.9K 5% 1/10W	R214	1-216-077-00	METAL GLAZE	15K 5% 1/10W
R123	1-216-097-00	METAL GLAZE	100K 5% 1/10W	R215	1-216-089-00	METAL GLAZE	47K 5% 1/10W
R124	1-216-097-00	METAL GLAZE	100K 5% 1/10W	R216	1-216-099-00	METAL GLAZE	120K 5% 1/10W
R125	1-216-270-00	METAL GLAZE	1M 5% 1/8W	R217	1-216-075-00	METAL GLAZE	12K 5% 1/10W
R127	1-216-119-00	METAL GLAZE	820K 5% 1/10W	R218	1-216-097-00	METAL GLAZE	100K 5% 1/10W
R128	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R219	1-216-063-00	METAL GLAZE	3.9K 5% 1/10W
R129	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R220	1-216-025-00	METAL GLAZE	100 5% 1/10W
R130	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R221	1-216-025-00	METAL GLAZE	100 5% 1/10W
R131	1-216-097-00	METAL GLAZE	100K 5% 1/10W	R222	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R132	1-216-089-00	METAL GLAZE	47K 5% 1/10W	R223	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R133	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R224	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R134	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R225	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R135	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R226	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R136	1-216-071-00	METAL GLAZE	8.2K 5% 1/10W	R227	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R137	1-216-077-00	METAL GLAZE	15K 5% 1/10W	R228	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R138	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R229	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R139	1-216-089-00	METAL GLAZE	47K 5% 1/10W	R230	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R140	1-216-077-00	METAL GLAZE	15K 5% 1/10W	R231	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R141	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W	R234	1-216-349-00	METAL OXIDE	1 5% 1W F
R142	1-216-063-00	METAL GLAZE	3.9K 5% 1/10W	R235	1-216-037-00	METAL GLAZE	330 5% 1/10W
R143	1-216-640-11	METAL CHIP	360 0.50% 1/10W	R236	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R144	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R237	1-216-349-00	METAL OXIDE	1 5% 1W F
R145	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R238	1-216-059-00	METAL GLAZE	2.7K 5% 1/10W
R146	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R239	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R147	1-216-689-11	METAL GLAZE	39K 5% 1/10W	R240	1-216-035-00	METAL GLAZE	270 5% 1/10W
R148	1-216-689-11	METAL GLAZE	39K 5% 1/10W	R241	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R149	1-216-063-00	METAL GLAZE	3.9K 5% 1/10W	R242	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R150	1-216-640-11	METAL CHIP	360 0.50% 1/10W	R243	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R151	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R244	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R152	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R245	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R153	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R246	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R154	1-216-689-11	METAL GLAZE	39K 5% 1/10W	R247	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R155	1-216-689-11	METAL GLAZE	39K 5% 1/10W	R250	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R156	1-216-089-00	METAL GLAZE	47K 5% 1/10W	R265	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R157	1-216-085-00	METAL GLAZE	33K 5% 1/10W	R273	1-216-025-00	METAL GLAZE	100 5% 1/10W
				R275	1-216-025-00	METAL GLAZE	100 5% 1/10W
				R276	1-216-025-00	METAL GLAZE	100 5% 1/10W
				R277	1-216-025-00	METAL GLAZE	100 5% 1/10W
				R278	1-216-025-00	METAL GLAZE	100 5% 1/10W



A1

A

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R279	1-216-025-00	METAL GLAZE	100 5% 1/10W	C1140	1-102-228-00	CERAMIC	470PF 10% 500V
R280	1-216-025-00	METAL GLAZE	100 5% 1/10W	C1141	1-102-228-00	CERAMIC	470PF 10% 500V
R281	1-216-025-00	METAL GLAZE	100 5% 1/10W	C1142	1-102-228-00	CERAMIC	470PF 10% 500V
R282	1-216-025-00	METAL GLAZE	100 5% 1/10W	C1143	1-102-228-00	CERAMIC	470PF 10% 500V
R283	1-216-025-00	METAL GLAZE	100 5% 1/10W	C1144	1-102-228-00	CERAMIC	470PF 10% 500V
R284	1-216-025-00	METAL GLAZE	100 5% 1/10W	C1145	1-102-228-00	CERAMIC	470PF 10% 500V
R287	1-216-025-00	METAL GLAZE	100 5% 1/10W	C1146	1-102-228-00	CERAMIC	470PF 10% 500V
R288	1-216-049-00	METAL GLAZE	1K 5% 1/10W	C1148	1-102-228-00	CERAMIC	470PF 10% 500V
R289	1-216-049-00	METAL GLAZE	1K 5% 1/10W	C1149	1-126-157-11	ELECT	10MF 20% 16V
R290	1-216-049-00	METAL GLAZE	1K 5% 1/10W	C1153	1-124-589-11	ELECT	47MF 20% 16V
R291	1-249-429-11	CARBON	10K 5% 1/4W	C1155	1-124-907-11	ELECT	10MF 20% 50V
<VARIABLE RESISTOR>				C1156	1-124-589-11	ELECT	47MF 20% 16V
RV201	1-241-630-11	RES, ADJ, CARBON 10K		C1157	1-102-973-00	CERAMIC	100PF 5% 50V
RV202	1-241-632-11	RES, ADJ, CARBON 47K		C1158	1-126-301-11	ELECT	1MF 20% 50V
<CRYSTAL>				C1159	1-130-487-00	MYLAR	0.022MF 5% 50V
X101	1-579-282-21	VIBRATOR, CRYSTAL		C1160	1-130-487-00	MYLAR	0.022MF 5% 50V
X102	1-579-281-11	VIBRATOR, CRYSTAL		C1161	1-130-471-00	MYLAR	0.001MF 5% 50V
*****				C1162	1-130-483-00	MYLAR	0.01MF 5% 50V
*A-1297-064-A	A BOARD, COMPLETE (KV-S29JN1)			C1201	1-124-907-11	ELECT	10MF 20% 50V
	*****			C1202	1-124-907-11	ELECT	10MF 20% 50V
*A-1296-972-A	A BOARD, COMPLETE			C1203	1-124-910-11	ELECT	47MF 20% 50V
	*****			C1204	1-124-907-11	ELECT	10MF 20% 50V
	(KV-S29MN1, S29SN1)			C1205	1-124-927-11	ELECT	4.7MF 20% 50V
*A-1297-033-A	A BOARD, COMPLETE (KV-S34JN1)			C1206	1-124-907-11	ELECT	10MF 20% 50V
	*****			C1207	1-124-910-11	ELECT	47MF 20% 50V
*A-1296-961-A	A BOARD, COMPLETE (KV-S34MN1, S34SN1)			C1208	1-124-927-11	ELECT	4.7MF 20% 50V
	*****			C1209	1-124-927-11	ELECT	4.7MF 20% 50V
*4-341-752-01	EYELET (EY1-EY10)			C1210	1-124-903-11	ELECT	1MF 20% 50V
4-382-854-11	SCREW (M3X10), P. SW (+)			C1211	1-124-927-11	ELECT	4.7MF 20% 50V
<CAPACITOR>				C1212	1-130-483-00	MYLAR	0.01MF 5% 50V
C1101	1-124-907-11	ELECT	10MF 20% 50V	C1213	1-124-927-11	ELECT	4.7MF 20% 50V
C1102	1-124-478-11	ELECT	100MF 20% 25V	C1214	1-124-927-11	ELECT	4.7MF 20% 50V
C1103	1-102-121-00	CERAMIC	0.0022MF 10% 50V	C1215	1-124-907-11	ELECT	10MF 20% 50V
C1104	1-102-121-00	CERAMIC	0.0022MF 10% 50V	C1216	1-136-165-00	FILM	0.1MF 5% 50V
C1105	1-102-978-00	CERAMIC	220PF 5% 50V	C1217	1-126-057-11	ELECT	2200MF 20% 50V
C1106	1-130-491-00	MYLAR	0.047MF 5% 50V	C1218	1-136-169-00	FILM	0.22MF 5% 50V
C1107	1-126-301-11	ELECT	1MF 20% 50V	C1219	1-126-057-11	ELECT	2200MF 20% 50V
C1108	1-102-973-00	CERAMIC	100PF 5% 50V	C1220	1-136-165-00	FILM	0.1MF 5% 50V
C1110	1-124-472-11	ELECT	470MF 20% 10V	C1221	1-124-234-00	ELECT	22MF 20% 16V
C1111	1-131-343-00	TANTALUM	0.22MF 20% 16V	C1222	1-126-057-11	ELECT	2200MF 20% 50V
C1112	1-124-907-11	ELECT	10MF 20% 50V	C1223	1-124-910-11	ELECT	47MF 20% 50V
C1113	1-124-478-11	ELECT	100MF 20% 25V	C1224	1-124-910-11	ELECT	47MF 20% 50V
C1114	1-124-122-11	ELECT	100MF 20% 50V	C1225	1-124-903-11	ELECT	1MF 20% 50V
C1115	1-124-478-11	ELECT	100MF 20% 25V	C1226	1-124-903-11	ELECT	1MF 20% 50V
C1117	1-124-907-11	ELECT	10MF 20% 50V	C1228	1-124-910-11	ELECT	47MF 20% 50V
C1119	1-124-907-11	ELECT	10MF 20% 50V	C1231	1-124-907-11	ELECT	10MF 20% 50V
C1120	1-124-122-11	ELECT	100MF 20% 50V	C1232	1-126-101-11	ELECT	100MF 20% 16V
C1122	1-102-976-00	CERAMIC	180PF 5% 50V	C2602	1-124-477-11	ELECT	47MF 20% 16V
C1123	1-102-976-00	CERAMIC	180PF 5% 50V	C2604	1-124-907-11	ELECT	10MF 20% 50V
C1124	1-124-907-11	ELECT	10MF 20% 50V	C2609	1-124-477-11	ELECT	47MF 20% 16V
C1125	1-130-483-00	MYLAR	0.01MF 5% 50V	C2621	1-136-497-81	FILM	0.1MF 5% 50V
C1127	1-124-907-11	ELECT	10MF 20% 50V	C2622	1-136-497-81	FILM	0.1MF 5% 50V
C1128	1-124-903-11	ELECT	1MF 20% 50V	C2625	1-124-477-11	ELECT	47MF 20% 25V
C1130	1-102-978-00	CERAMIC	220PF 5% 50V	C2626	1-124-477-11	ELECT	47MF 20% 25V
C1131	1-130-491-00	MYLAR	0.047MF 5% 50V	C2627	1-124-911-11	ELECT	220MF 20% 50V
C1132	1-126-301-11	ELECT	1MF 20% 50V	C2628	1-124-120-11	ELECT	220MF 20% 25V
C1133	1-102-973-00	CERAMIC	100PF 5% 50V	C2629	1-124-120-11	ELECT	220MF 20% 25V
C1134	1-124-478-11	ELECT	100MF 20% 25V	C2630	1-136-497-81	FILM	0.1MF 5% 50V
C1135	1-124-478-11	ELECT	100MF 20% 25V	C2631	1-126-101-11	ELECT	100MF 20% 16V
C1136	1-124-907-11	ELECT	10MF 20% 50V	C2632	1-124-907-11	ELECT	10MF 20% 50V
C1139	1-102-228-00	CERAMIC	470PF 10% 500V	C2633	1-102-129-00	CERAMIC	0.01MF 10% 50V
C3502	1-124-120-11	ELECT	220MF 20% 16V	C3510	1-102-112-00	CERAMIC	330PF 10% 50V

A

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C3512	1-126-301-11	ELECT	1MF 20% 50V	CN1128*1-691-616-11	CONNECTOR, BOARD TO BOARD 15P		
C3513	1-136-169-00	FILM	0.22MF 5% 50V	CN1129*1-573-978-11	CONNECTOR, BOARD TO BOARD 11P		
C3514	1-136-169-00	FILM	0.22MF 5% 50V	CN1132*1-564-513-11	PLUG, CONNECTOR 10P		
C3515	1-130-487-00	MYLAR	0.022MF 5% 50V	CN1134*1-564-513-11	PLUG, CONNECTOR 10P		
C3516	1-126-301-11	ELECT	1MF 20% 50V				
C3517	1-124-478-11	ELECT	100MF 20% 25V				
C3518	1-124-903-11	ELECT	1MF 20% 50V				
C3519	1-130-471-00	MYLAR	0.001MF 5% 50V				
C3520	1-124-589-11	ELECT	47MF 20% 16V				
C3521	1-102-110-00	CERAMIC	220PF 10% 50V				
C3522	1-124-907-11	ELECT	10MF 20% 50V				
C3523	1-124-465-00	ELECT	0.47MF 20% 50V				
C3525	1-130-483-00	MYLAR	0.01MF 5% 50V				
C3526	1-102-106-00	CERAMIC	100PF 10% 50V				
C3527	1-126-301-11	ELECT	1MF 20% 50V				
C3528	1-102-129-00	CERAMIC	0.01MF 10% 50V				
C3530	1-124-465-00	ELECT	0.47MF 20% 50V				
C3531	1-130-479-00	MYLAR	0.0047MF 5% 50V				
C3532	1-136-169-00	FILM	0.22MF 5% 50V				
C3533	1-124-767-00	ELECT	2.2MF 20% 50V				
C3534	1-136-169-00	FILM	0.22MF 5% 50V				
C3535	1-124-903-11	ELECT	1MF 20% 50V				
C3536	1-124-767-00	ELECT	2.2MF 20% 50V				
C3537	1-102-129-00	CERAMIC	0.01MF 10% 50V				
C3538	1-102-129-00	CERAMIC	0.01MF 10% 50V				
C3539	1-124-234-00	ELECT	22MF 20% 16V				
C3540	1-102-973-00	CERAMIC	100PF 5% 50V				
C3541	1-130-479-00	MYLAR	0.0047MF 5% 50V				
C3542	1-124-478-11	ELECT	100MF 20% 25V				
C3543	1-102-228-00	CERAMIC	470PF 10% 500V				
C3544	1-102-525-11	CERAMIC	68PF 5% 50V				
C3545	1-124-925-11	ELECT	2.2MF 20% 50V				
C3546	1-102-973-00	CERAMIC	100PF 5% 50V				
C3547	1-130-487-00	MYLAR	0.022MF 5% 50V				
C3548	1-124-903-11	ELECT	1MF 20% 50V				
C3549	1-124-903-11	ELECT	1MF 20% 50V				
C3550	1-137-443-11	FILM	0.056MF 5% 50V				
C3554	1-136-161-00	FILM	0.047MF 5% 50V				
C3555	1-136-161-00	FILM	0.047MF 5% 50V				
C3557	1-136-165-00	FILM	0.1MF 5% 50V				
C3558	1-102-125-00	CERAMIC	0.0047MF 10% 50V				
C3559	1-136-165-00	FILM	0.1MF 5% 50V				
<CONNECTOR>				<DIODE>			
CN1100*1-573-979-11	CONNECTOR, BOARD TO BOARD 11P			D1101	8-719-016-42	DIODE MC932	
CN1101*1-564-509-11	PLUG, CONNECTOR 6P			D1102	8-719-911-19	DIODE ISS119	
CN1102*1-508-784-00	PIN, CONNECTOR (5MM PITCH) 1P			D1103	8-719-911-19	DIODE ISS119	
CN1103	1-691-160-11	PIN, CONNECTOR 3P		D1104	8-719-109-96	DIODE RD6.8ES-B1	
CN1104*1-564-505-11	PLUG, CONNECTOR 2P			D1105	8-719-109-96	DIODE RD6.8ES-B1	
CN1105*1-564-506-11	PLUG, CONNECTOR 3P			D1107	8-719-911-19	DIODE ISS119	
CN1106*1-508-784-00	PIN, CONNECTOR (5MM PITCH) 1P			D1108	8-719-911-19	DIODE ISS119	
CN1107	1-691-165-11	PIN, CONNECTOR 8P		D1109	8-719-109-84	DIODE RD5.1ES-B1	
CN1109*1-691-616-11	CONNECTOR, BOARD TO BOARD 15P			D1130	8-719-016-42	DIODE MC932	
CN1110*1-564-510-11	PLUG, CONNECTOR 7P			D1131	8-719-911-19	DIODE ISS119	
CN1111*1-564-512-11	PLUG, CONNECTOR 9P			D1132	8-719-109-81	DIODE RD4.7ES-B2	
CN1112*1-565-394-11	PIN, BOARD TO BOARD CONNECTOR			D1201	8-719-110-36	DIODE RD13ES-B2	
CN1113*1-565-394-11	PIN, BOARD TO BOARD CONNECTOR			D1202	8-719-110-36	DIODE RD13ES-B2	
CN1115*1-564-513-11	PLUG, CONNECTOR 10P			D1203	8-719-911-19	DIODE ISS119	
CN1116*1-573-960-11	CONNECTOR (FEMALE) 50P			D1204	8-719-510-48	DIODE DIN20R	
CN1117*1-573-960-11	CONNECTOR (FEMALE) 50P			D1206	8-719-510-48	DIODE DIN20R	
CN1118*1-573-978-11	CONNECTOR, BOARD TO BOARD 11P			D2001	8-719-981-50	DIODE RB-100A	
CN1119*1-573-978-11	CONNECTOR, BOARD TO BOARD 11P			D3501	8-719-911-19	DIODE ISS119	
CN1121*1-564-511-11	PLUG, CONNECTOR 8P			D3502	8-719-109-88	DIODE RD5.6ES-B1	
				D3503	8-719-110-22	DIODE RD11ES-B2	
<IC>				<IC>			
				IC1101	8-759-800-81	IC LA7016	
				IC1201	8-759-145-57	IC UPC4557C	
				IC1202	8-759-145-27	IC UPC1406HA	
				IC1203	8-759-246-70	IC TA8216H	
				IC2602	8-759-802-21	IC L780S09	
				IC2603	8-759-802-18	IC L780S05	
				IC2604	8-759-802-23	IC L780S12	
				IC2606	8-759-802-21	IC L780S09	
				IC2607	8-719-160-86	DIODE RD33F-B1	
				IC3501	8-752-057-68	IC CXA1464AS	
				IC3502	8-759-112-93	IC UPC4570HA-1	
				IC3503	8-752-057-18	IC CXA1315P	
<IF BLOCK>				<IF BLOCK>			
				IF1101	1-466-677-11	IF BLOCK (IFF-380)	
				IF1102	1-466-138-11	IF BLOCK (IFD-380A)	
<JACK>				<JACK>			
				J1101	1-507-562-00	JACK	
				J1102	1-507-562-00	JACK	
<COIL>				<COIL>			
				L1101	1-410-478-11	INDUCTOR 47UH	
				L1102	1-410-478-11	INDUCTOR 47UH	
				L1103	1-410-478-11	INDUCTOR 47UH	
				L1104	1-410-478-11	INDUCTOR 47UH	
				L1105	1-410-478-11	INDUCTOR 47UH	
				L1106	1-410-478-11	INDUCTOR 47UH	
				L1107	1-408-429-00	INDUCTOR 470UH	
				L1108	1-410-478-11	INDUCTOR 47UH	
				L1201	1-408-421-00	INDUCTOR 100UH	

A

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
L1203	1-410-478-11	INDUCTOR	47UH	R1107	1-249-429-11	CARBON	10K 5% 1/4W
L2601	1-412-528-11	INDUCTOR	18UH	R1108	1-249-431-11	CARBON	15K 5% 1/4W
L2602	1-412-533-11	INDUCTOR	47UH	R1109	1-249-437-11	CARBON	47K 5% 1/4W
L2603	1-412-533-11	INDUCTOR	47UH	R1110	1-249-439-11	CARBON	68K 5% 1/4W
L2604	1-412-529-11	INDUCTOR	22UH	R1111	1-249-421-11	CARBON	2.2K 5% 1/4W
L2605	1-412-533-11	INDUCTOR	47UH	R1112	1-249-429-11	CARBON	10K 5% 1/4W
<TRANSISTOR>				R1113	1-249-425-11	CARBON	4.7K 5% 1/4W
Q1101	8-729-119-76	TRANSISTOR	2SA1175-HFE	R1114	1-249-441-11	CARBON	100K 5% 1/4W
Q1102	8-729-119-76	TRANSISTOR	2SA1175-HFE	R1115	1-249-433-11	CARBON	22K 5% 1/4W
Q1103	8-729-119-76	TRANSISTOR	2SA1175-HFE	R1116	1-249-413-11	CARBON	470 5% 1/4W
Q1104	8-729-119-78	TRANSISTOR	2SC2785-HFE	R1117	1-249-404-00	CARBON	82 5% 1/4W
Q1105	8-729-119-78	TRANSISTOR	2SC2785-HFE	R1118	1-249-437-11	CARBON	47K 5% 1/4W
Q1106	8-729-119-78	TRANSISTOR	2SC2785-HFE	R1119	1-249-437-11	CARBON	47K 5% 1/4W
Q1107	8-729-119-76	TRANSISTOR	2SA1175-HFE	R1120	1-249-441-11	CARBON	100K 5% 1/4W
Q1108	8-729-119-76	TRANSISTOR	2SA1175-HFE	R1121	1-249-441-11	CARBON	100K 5% 1/4W
Q1110	8-729-808-36	TRANSISTOR	2SK669	R1122	1-249-395-11	CARBON	15 5% 1/4W F
Q1112	8-729-808-36	TRANSISTOR	2SK669	R1123	1-249-395-11	CARBON	15 5% 1/4W F
Q1113	8-729-900-89	TRANSISTOR	DTC144ES	R1124	1-249-429-11	CARBON	10K 5% 1/4W
Q1114	8-729-119-78	TRANSISTOR	2SC2785-HFE	R1125	1-249-429-11	CARBON	10K 5% 1/4W
Q1115	8-729-119-76	TRANSISTOR	2SA1175-HFE	R1126	1-249-409-11	CARBON	220 5% 1/4W
Q1116	8-729-900-80	TRANSISTOR	DTC114ES	R1127	1-249-409-11	CARBON	220 5% 1/4W
Q1117	8-729-119-78	TRANSISTOR	2SC2785-HFE	R1128	1-249-409-11	CARBON	220 5% 1/4W
Q1118	8-729-900-89	TRANSISTOR	DTC144ES	R1129	1-249-428-11	CARBON	8.2K 5% 1/4W
Q1119	8-729-900-89	TRANSISTOR	DTC144ES	R1130	1-249-415-11	CARBON	680 5% 1/4W
Q1130	8-729-119-76	TRANSISTOR	2SA1175-HFE	R1131	1-247-903-00	CARBON	1M 5% 1/4W
Q1132	8-729-119-78	TRANSISTOR	2SC2785-HFE	R1132	1-249-441-11	CARBON	100K 5% 1/4W
Q1133	8-729-119-78	TRANSISTOR	2SC2785-HFE	R1133	1-249-429-11	CARBON	10K 5% 1/4W
Q1134	8-729-900-89	TRANSISTOR	DTC144ES	R1134	1-249-429-11	CARBON	10K 5% 1/4W
Q1135	8-729-119-78	TRANSISTOR	2SC2785-HFE	R1135	1-249-428-11	CARBON	8.2K 5% 1/4W
Q1201	8-729-119-76	TRANSISTOR	2SA1175-HFE	R1136	1-249-405-11	CARBON	100 5% 1/4W
Q1202	8-729-119-78	TRANSISTOR	2SC2785-HFE	R1137	1-249-409-11	CARBON	220 5% 1/4W
Q1203	8-729-119-78	TRANSISTOR	2SC2785-HFE	R1139	1-249-425-11	CARBON	4.7K 5% 1/4W
Q1204	8-729-900-89	TRANSISTOR	DTC144ES	R1140	1-249-433-11	CARBON	22K 5% 1/4W
Q1205	8-729-900-89	TRANSISTOR	DTC144ES	R1141	1-249-429-11	CARBON	10K 5% 1/4W
Q2001	8-729-119-78	TRANSISTOR	2SC2785-HFE	R1144	1-249-425-11	CARBON	4.7K 5% 1/4W
Q2002	8-729-900-85	TRANSISTOR	DTC144WS	R1145	1-249-433-11	CARBON	22K 5% 1/4W
Q3503	8-729-900-36	TRANSISTOR	DTC124ES	R1146	1-249-429-11	CARBON	10K 5% 1/4W
Q3504	8-729-119-78	TRANSISTOR	2SC2785-HFE	R1148	1-249-441-11	CARBON	100K 5% 1/4W
Q3505	8-729-119-78	TRANSISTOR	2SC2785-HFE	R1149	1-247-881-00	CARBON	120K 5% 1/4W
Q3506	8-729-119-78	TRANSISTOR	2SC2785-HFE	R1150	1-249-409-11	CARBON	220 5% 1/4W
Q3507	8-729-119-78	TRANSISTOR	2SC2785-HFE	R1152	1-249-417-11	CARBON	1K 5% 1/4W
Q3508	8-729-119-78	TRANSISTOR	2SC2785-HFE	R1153	1-249-417-11	CARBON	1K 5% 1/4W
Q3509	8-729-119-78	TRANSISTOR	2SC2785-HFE	R1154	1-249-409-11	CARBON	220 5% 1/4W
Q3511	8-729-119-78	TRANSISTOR	2SC2785-HFE	R1155	1-249-409-11	CARBON	220 5% 1/4W
Q3512	8-729-119-76	TRANSISTOR	2SA1175-HFE	R1156	1-249-429-11	CARBON	10K 5% 1/4W
Q3513	8-729-119-76	TRANSISTOR	2SA1175-HFE	R1158	1-249-429-11	CARBON	10K 5% 1/4W
Q3514	8-729-119-78	TRANSISTOR	2SC2785-HFE	R1160	1-249-409-11	CARBON	220 5% 1/4W
Q3515	8-729-119-78	TRANSISTOR	2SC2785-HFE	R1161	1-249-440-11	CARBON	82K 5% 1/4W
Q3516	8-729-119-78	TRANSISTOR	2SC2785-HFE	R1162	1-249-417-11	CARBON	1K 5% 1/4W
Q3517	8-729-119-78	TRANSISTOR	2SC2785-HFE	R1163	1-249-423-11	CARBON	3.3K 5% 1/4W
Q3518	8-729-119-76	TRANSISTOR	2SA1175-HFE	R1164	1-249-425-11	CARBON	4.7K 5% 1/4W
Q3519	8-729-900-36	TRANSISTOR	DTC124ES	R1165	1-249-429-11	CARBON	10K 5% 1/4W
Q3520	8-729-900-36	TRANSISTOR	DTC124ES	R1166	1-247-889-00	CARBON	270K 5% 1/4W
Q3521	8-729-900-36	TRANSISTOR	DTC124ES	R1167	1-247-889-00	CARBON	270K 5% 1/4W
Q3522	8-729-119-78	TRANSISTOR	2SC2785-HFE	R1168	1-249-435-11	CARBON	33K 5% 1/4W
<RESISTOR>				R1169	1-249-405-11	CARBON	100 5% 1/4W
R1103	1-249-415-11	CARBON	680 5% 1/4W	R1170	1-249-429-11	CARBON	10K 5% 1/4W
R1104	1-247-903-00	CARBON	1M 5% 1/4W	R1171	1-249-429-11	CARBON	10K 5% 1/4W
R1105	1-249-441-11	CARBON	100K 5% 1/4W	R1173	1-249-417-11	CARBON	1K 5% 1/4W
R1106	1-249-429-11	CARBON	10K 5% 1/4W	R1174	1-249-437-11	CARBON	47K 5% 1/4W
				R1175	1-249-437-11	CARBON	47K 5% 1/4W
				R1176	1-249-435-11	CARBON	33K 5% 1/4W
				R1177	1-249-423-11	CARBON	3.3K 5% 1/4W

The components identified by shading and mark  $\Delta$  are critical for safety.  
Replace only with part number specified.

KV-S29JN1/S29MN1/S29SN1/S34JN1/S34MN1/S34SN1  
RM-821

A

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R1178	1-249-423-11	CARBON	3.3K 5% 1/4W	R3527	1-249-417-11	CARBON	1K 5% 1/4W F
R1179	1-249-428-11	CARBON	8.2K 5% 1/4W	R3528	1-259-880-11	CARBON	2.2M 5% 1/4W
R1201	1-249-425-11	CARBON	4.7K 5% 1/4W	R3529	1-249-415-11	CARBON	680 5% 1/4W
R1202	1-249-406-11	CARBON	120 5% 1/4W	R3531	1-249-421-11	CARBON	2.2K 5% 1/4W
R1203	1-249-425-11	CARBON	4.7K 5% 1/4W	R3532	1-249-405-11	CARBON	100 5% 1/4W F
R1204	1-249-429-11	CARBON	10K 5% 1/4W	R3533	1-249-405-11	CARBON	100 5% 1/4W
R1205	1-249-429-11	CARBON	10K 5% 1/4W	R3534	1-249-415-11	CARBON	680 5% 1/4W
R1206	1-249-437-11	CARBON	47K 5% 1/4W	R3535	1-249-417-11	CARBON	1K 5% 1/4W
R1207	1-249-406-11	CARBON	120 5% 1/4W	R3536	1-249-429-11	CARBON	10K 5% 1/4W
R1208	1-249-437-11	CARBON	47K 5% 1/4W	R3538	1-249-437-11	CARBON	47K 5% 1/4W
R1209	1-247-899-11	CARBON	680K 5% 1/4W	R3539	1-249-437-11	CARBON	47K 5% 1/4W
R1210	1-249-437-11	CARBON	47K 5% 1/4W	R3540	1-249-438-11	CARBON	56K 5% 1/4W
R1211	1-249-441-11	CARBON	100K 5% 1/4W	R3541	1-249-437-11	CARBON	47K 5% 1/4W
R1212	1-247-899-11	CARBON	680K 5% 1/4W	R3542	1-249-437-11	CARBON	47K 5% 1/4W
R1213	1-249-425-11	CARBON	4.7K 5% 1/4W	R3543	1-247-887-00	CARBON	220K 5% 1/4W
R1214	1-249-425-11	CARBON	4.7K 5% 1/4W	R3544	1-247-883-00	CARBON	150K 5% 1/4W
R1215	1-249-441-11	CARBON	100K 5% 1/4W	R3545	1-249-435-11	CARBON	33K 5% 1/4W
R1216	1-249-437-11	CARBON	47K 5% 1/4W	R3546	1-249-435-11	CARBON	33K 5% 1/4W
R1217	1-249-441-11	CARBON	100K 5% 1/4W	R3547	1-249-429-11	CARBON	10K 5% 1/4W
R1218	1-249-425-11	CARBON	4.7K 5% 1/4W	R3548	1-249-429-11	CARBON	10K 5% 1/4W
R1219	1-249-417-11	CARBON	1K 5% 1/4W	R3549	1-249-425-11	CARBON	4.7K 5% 1/4W
R1221	1-249-417-11	CARBON	1K 5% 1/4W	R3550	1-247-887-00	CARBON	220K 5% 1/4W
R1223	1-249-437-11	CARBON	47K 5% 1/4W	R3551	1-249-439-11	CARBON	68K 5% 1/4W
R1224	1-249-435-11	CARBON	33K 5% 1/4W	R3552	1-249-441-11	CARBON	100K 5% 1/4W
R1225	1-249-437-11	CARBON	47K 5% 1/4W	R3553	1-249-409-11	CARBON	220 5% 1/4W
R1226	1-249-385-11	CARBON	2.2 5% 1/4W F	R3554	1-249-429-11	CARBON	10K 5% 1/4W
R1227	1-249-441-11	CARBON	100K 5% 1/4W	R3555	1-249-409-11	CARBON	220 5% 1/4W
R1228	1-249-385-11	CARBON	2.2 5% 1/4W F	R3556	1-249-417-11	CARBON	1K 5% 1/4W
R1229	1-249-441-11	CARBON	100K 5% 1/4W	R3557	1-249-421-11	CARBON	2.2K 5% 1/4W
R1232	1-249-425-11	CARBON	4.7K 5% 1/4W	R3558	1-249-425-11	CARBON	4.7K 5% 1/4W
R1235	1-249-425-11	CARBON	4.7K 5% 1/4W	R3559	1-249-441-11	CARBON	100K 5% 1/4W
R1236	1-249-437-11	CARBON	47K 5% 1/4W	R3560	1-249-417-11	CARBON	1K 5% 1/4W
R1240	1-249-441-11	CARBON	100K 5% 1/4W	R3561	1-249-433-11	CARBON	22K 5% 1/4W
R1242	1-216-349-00	METAL OXIDE	1 5% 1W F	R3562	1-249-425-11	CARBON	4.7K 5% 1/4W
R1243	1-249-429-11	CARBON	10K 5% 1/4W	R3563	1-249-417-11	CARBON	1K 5% 1/4W
R2001	1-249-429-11	CARBON	10K 5% 1/4W	R3564	1-249-429-11	CARBON	10K 5% 1/4W
R2002	1-249-429-11	CARBON	10K 5% 1/4W	R3565	1-249-423-11	CARBON	3.3K 5% 1/4W
R2003	1-249-429-11	CARBON	10K 5% 1/4W	R3566	1-249-424-11	CARBON	3.9K 5% 1/4W
R2601	1-215-905-11	METAL OXIDE	10 5% 3W F	R3567	1-249-425-11	CARBON	4.7K 5% 1/4W
R2602	1-215-916-00	METAL OXIDE	680 5% 3W F	R3568	1-259-884-11	CARBON	4.7M 5% 1/4W
R2603	1-215-905-11	METAL OXIDE	10 5% 3W F	R3569	1-249-415-11	CARBON	680 5% 1/4W
R2604	1-215-905-11	METAL OXIDE	10 5% 3W F	R3570	1-249-441-11	CARBON	100K 5% 1/4W
R2605	1-215-905-11	METAL OXIDE	10 5% 3W F	R3571	1-249-441-11	CARBON	100K 5% 1/4W
R2606	1-215-875-11	METAL OXIDE	10K 5% 1W F	R3581	1-249-409-11	CARBON	220 5% 1/4W
R2607	1-249-417-11	CARBON	1K 5% 1/4W	R3582	1-249-409-11	CARBON	220 5% 1/4W
R2608	1-249-417-11	CARBON	1K 5% 1/4W	R3583	1-249-429-11	CARBON	10K 5% 1/4W
R2609	1-249-417-11	CARBON	1K 5% 1/4W	R3584	1-249-429-11	CARBON	10K 5% 1/4W
R2610	1-249-417-11	CARBON	1K 5% 1/4W	R3585	1-249-438-11	CARBON	56K 5% 1/4W
R3506	1-249-417-11	CARBON	1K 5% 1/4W	R3586	1-249-429-11	CARBON	10K 5% 1/4W
R3507	1-259-882-11	CARBON	3.3M 5% 1/4W	R3587	1-247-903-00	CARBON	1M 5% 1/4W
R3508	1-249-423-11	CARBON	3.3K 5% 1/4W	R3588	1-249-429-11	CARBON	10K 5% 1/4W
R3509	1-249-427-11	CARBON	6.8K 5% 1/4W	R3589	1-247-903-00	CARBON	1M 5% 1/4W
R3512	1-215-441-00	METAL	6.8K 1% 1/4W	R3590	1-249-437-11	CARBON	47K 5% 1/4W
R3514	1-249-409-11	CARBON	220 5% 1/4W	R3591	1-259-878-11	CARBON	1.5M 5% 1/4W
R3515	1-249-409-11	CARBON	220 5% 1/4W				
R3516	1-249-405-11	CARBON	100 5% 1/4W				
R3517	1-215-457-00	METAL	33K 1% 1/4W				
R3518	1-249-405-11	CARBON	100 5% 1/4W				
R3519	1-249-409-11	CARBON	220 5% 1/4W F				
R3520	1-249-417-11	CARBON	1K 5% 1/4W				
R3521	1-249-418-11	CARBON	1.2K 5% 1/4W F				
R3523	1-249-428-11	CARBON	8.2K 5% 1/4W				
R3524	1-247-889-00	CARBON	270K 5% 1/4W				
R3525	1-249-409-11	CARBON	220 5% 1/4W				

<TUNER>

TU1101A 1-693-123-11 TUNER, ET (BTP-RG401)  
TU1102A 1-693-123-11 TUNER, ET (BTP-RG401)

\*\*\*\*\*

M

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
*A-1306-425-A	M BOARD, COMPLETE (KV-S29JN1, S34JN1)	*****		C062	1-163-001-11	CERAMIC CHIP 220PF	10% 50V
				C063	1-163-001-11	CERAMIC CHIP 220PF	10% 50V
				C064	1-163-001-11	CERAMIC CHIP 220PF	10% 50V
				C065	1-163-001-11	CERAMIC CHIP 220PF	10% 50V
*A-1306-418-A	M BOARD, COMPLETE	*****		C066	1-124-907-11	ELECT 10MF	20% 50V
	(KV-S29MN1, S29SN1, S34MN1, S34SN1)			C067	1-163-001-11	CERAMIC CHIP 220PF	10% 50V
	<CAPACITOR>			C068	1-124-907-11	ELECT 10MF	20% 50V
C001	1-124-907-11	ELECT 10MF	20% 50V	C069	1-124-907-11	ELECT 10MF	20% 50V
C002	1-124-907-11	ELECT 10MF	20% 50V	C070	1-124-907-11	ELECT 10MF	20% 50V
C003	1-163-033-00	CERAMIC CHIP 0.022MF	50V	C071	1-124-907-11	ELECT 10MF	20% 50V
C004	1-163-001-11	CERAMIC CHIP 220PF	10% 50V	C072	1-163-001-11	CERAMIC CHIP 220PF	10% 50V
C005	1-163-001-11	CERAMIC CHIP 220PF	10% 50V	C073	1-136-165-00	FILM 0.1MF	5% 50V
C006	1-163-001-11	CERAMIC CHIP 220PF	10% 50V			<CONNECTOR>	
C009	1-136-495-81	FILM 0.068MF	5% 50V	CN001	*1-564-525-11	PLUG, CONNECTOR 10P	
C010	1-163-001-11	CERAMIC CHIP 220PF	10% 50V	CN002	*1-573-965-11	PIN, CONNECTOR (PC BOARD) 50P	
C012	1-124-477-11	ELECT 47MF	20% 16V			<DIODE>	
C014	1-163-001-11	CERAMIC CHIP 220PF	10% 50V	D002	8-719-800-76	DIODE 1SS226	
C015	1-163-001-11	CERAMIC CHIP 220PF	10% 50V			(KV-S29MN1, S29SN1, S34MN1, S34SN1)	
C016	1-163-001-11	CERAMIC CHIP 220PF	10% 50V	D003	8-719-800-76	DIODE 1SS226	
C017	1-163-001-11	CERAMIC CHIP 220PF	10% 50V			(KV-S29MN1, S29SN1, S34MN1, S34SN1)	
C018	1-163-001-11	CERAMIC CHIP 220PF	10% 50V			<IC>	
C019	1-163-001-11	CERAMIC CHIP 220PF	10% 50V	IC001	8-759-043-86	IC ST24C02AB1	
C020	1-163-001-11	CERAMIC CHIP 220PF	10% 50V	IC002	8-759-043-86	IC ST24C02AB1	
C021	1-124-477-11	ELECT 47MF	20% 16V	IC003	8-759-403-44	IC MN1280-S	
C022	1-163-001-11	CERAMIC CHIP 220PF	10% 50V	IC004	8-759-069-75	IC MB90061-125	
C023	1-163-001-11	CERAMIC CHIP 220PF	10% 50V	IC005	8-759-069-76	IC M37204M8-A10SP	
C024	1-163-001-11	CERAMIC CHIP 220PF	10% 50V			(KV-S29MN1, S29SN1, S34MN1, S34SN1)	
C025	1-124-477-11	ELECT 47MF	20% 16V	IC006	8-759-091-39	IC M37204M8-A11SP (KV-S29JN1, S34JN1)	
C026	1-163-099-00	CERAMIC CHIP 18PF	5% 50V			IC UPC78N05H	
C027	1-163-001-11	CERAMIC CHIP 220PF	10% 50V			<COIL>	
C028	1-163-001-11	CERAMIC CHIP 220PF	10% 50V	L001	1-410-470-11	INDUCTOR 10UH	
C029	1-163-103-00	CERAMIC CHIP 27PF	5% 50V	L002	1-408-413-00	INDUCTOR 22UH	
C030	1-163-001-11	CERAMIC CHIP 220PF	10% 50V	L003	1-410-470-11	INDUCTOR 10UH	
C031	1-163-001-11	CERAMIC CHIP 220PF	10% 50V	L004	1-410-470-11	INDUCTOR 10UH	
C033	1-163-097-00	CERAMIC CHIP 15PF	5% 50V	L005	1-410-470-11	INDUCTOR 10UH	
C034	1-163-087-00	CERAMIC CHIP 4PF	0.25PF 50V			<TRANSISTOR>	
C035	1-163-105-00	CERAMIC CHIP 33PF	5% 50V	Q001	8-729-230-49	TRANSISTOR 2SC2712-YG	
C036	1-163-105-00	CERAMIC CHIP 33PF	5% 50V	Q002	8-729-230-49	TRANSISTOR 2SC2712-YG	
C037	1-163-001-11	CERAMIC CHIP 220PF	10% 50V	Q003	8-729-901-01	TRANSISTOR DTC144EK	
C038	1-163-001-11	CERAMIC CHIP 220PF	10% 50V	Q004	8-729-901-01	TRANSISTOR DTC144EK	
C039	1-163-001-11	CERAMIC CHIP 220PF	10% 50V	Q005	8-729-901-01	TRANSISTOR DTC144EK	
C040	1-163-001-11	CERAMIC CHIP 220PF	10% 50V			<RESISTOR>	
C041	1-124-477-11	ELECT 47MF	20% 16V	R001	1-216-033-00	METAL GLAZE 220 5%	1/10W
C042	1-163-001-11	CERAMIC CHIP 220PF	10% 50V	R002	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
C043	1-163-001-11	CERAMIC CHIP 220PF	10% 50V	R003	1-216-033-00	METAL GLAZE 220 5%	1/10W
C044	1-124-907-11	ELECT 10MF	20% 50V	R004	1-216-033-00	METAL GLAZE 220 5%	1/10W
C045	1-163-001-11	CERAMIC CHIP 220PF	10% 50V	R005	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
C046	1-163-001-11	CERAMIC CHIP 220PF	10% 50V	R006	1-216-033-00	METAL GLAZE 220 5%	1/10W
C047	1-163-001-11	CERAMIC CHIP 220PF	10% 50V	R007	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
C048	1-163-001-11	CERAMIC CHIP 220PF	10% 50V	R008	1-216-073-00	METAL GLAZE 10K 5%	1/10W
C049	1-163-001-11	CERAMIC CHIP 220PF	10% 50V	R009	1-216-073-00	METAL GLAZE 10K 5%	1/10W
C050	1-163-001-11	CERAMIC CHIP 220PF	10% 50V	R010	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
C051	1-163-001-11	CERAMIC CHIP 220PF	10% 50V	R011	1-216-033-00	METAL GLAZE 220 5%	1/10W
C052	1-163-001-11	CERAMIC CHIP 220PF	10% 50V				
C053	1-163-001-11	CERAMIC CHIP 220PF	10% 50V				
C054	1-163-001-11	CERAMIC CHIP 220PF	10% 50V				
C055	1-163-001-11	CERAMIC CHIP 220PF	10% 50V				
C056	1-163-001-11	CERAMIC CHIP 220PF	10% 50V				
C057	1-163-001-11	CERAMIC CHIP 220PF	10% 50V				
C058	1-163-001-11	CERAMIC CHIP 220PF	10% 50V				
C059	1-124-477-11	ELECT 47MF	20% 16V				
C060	1-163-001-11	CERAMIC CHIP 220PF	10% 50V				
C061	1-163-001-11	CERAMIC CHIP 220PF	10% 50V				

M

C

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R012	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R082	1-216-033-00	METAL GLAZE	220 5% 1/10W
R013	1-216-033-00	METAL GLAZE	220 5% 1/10W	R083	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R014	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R084	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R015	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R085	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R016	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R086	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R017	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R087	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R018	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R088	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R019	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R089	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R020	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R090	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R021	1-216-033-00	METAL GLAZE	220 5% 1/10W	R091	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R022	1-216-033-00	METAL GLAZE	220 5% 1/10W	R092	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R023	1-216-033-00	METAL GLAZE	220 5% 1/10W	R093	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R024	1-216-033-00	METAL GLAZE	220 5% 1/10W	R094	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R025	1-216-033-00	METAL GLAZE	220 5% 1/10W	R095	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R026	1-216-033-00	METAL GLAZE	220 5% 1/10W	R096	1-216-033-00	METAL GLAZE	220 5% 1/10W
R027	1-216-033-00	METAL GLAZE	220 5% 1/10W	R097	1-216-033-00	METAL GLAZE	220 5% 1/10W
R028	1-216-033-00	METAL GLAZE	220 5% 1/10W	R098	1-216-033-00	METAL GLAZE	220 5% 1/10W
R029	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R099	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R031	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R100	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R032	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R101	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R033	1-216-033-00	METAL GLAZE	220 5% 1/10W	<CRYSTAL>			
R034	1-216-033-00	METAL GLAZE	220 5% 1/10W	X001	1-577-082-11	VIBRATOR, CERAMIC	
R035	1-216-033-00	METAL GLAZE	220 5% 1/10W	X002	1-577-289-11	VIBRATOR, CRYSTAL 17.7MHZ	
R036	1-216-033-00	METAL GLAZE	220 5% 1/10W		3-741-396-01	INSULATOR; X002	
R037	1-216-033-00	METAL GLAZE	220 5% 1/10W	*****			
R038	1-216-049-00	METAL GLAZE	1K 5% 1/10W	*A-1331-217-A	C BOARD, COMPLETE		
R039	1-216-033-00	METAL GLAZE	220 5% 1/10W		*****		
R040	1-216-073-00	METAL GLAZE	10K 5% 1/10W	*4-341-751-01	EYELET (EY50~EY52,EY57~EY59,E162,EY67)		
R042	1-216-033-00	METAL GLAZE	220 5% 1/10W	*4-341-752-01	EYELET (EY53~EY56,EY60,EY61,E163~EY66,EY68~EY74)		
R043	1-216-033-00	METAL GLAZE	220 5% 1/10W	<CAPACITOR>			
R044	1-216-033-00	METAL GLAZE	220 5% 1/10W	C701	1-162-116-00	CERAMIC	680PF 10% 2KV
R045	1-216-049-00	METAL GLAZE	1K 5% 1/10W	C702	1-137-490-11	FILM	0.01MF 10% 1KV
R046	1-216-033-00	METAL GLAZE	220 5% 1/10W	C704	1-123-946-00	ELECT	4.7MF 20% 250V
R047	1-216-033-00	METAL GLAZE	220 5% 1/10W	C705	1-106-375-12	MYLAR	0.022MF 200V
R048	1-216-025-00	METAL GLAZE	100 5% 1/10W	C706	1-106-375-12	MYLAR	0.022MF 200V
R049	1-216-033-00	METAL GLAZE	220 5% 1/10W	C707	1-164-083-11	CERAMIC	680PF 10% 50V
R050	1-216-033-00	METAL GLAZE	220 5% 1/10W	C708	1-164-083-11	CERAMIC	680PF 10% 50V
R051	1-216-033-00	METAL GLAZE	220 5% 1/10W	C709	1-164-083-11	CERAMIC	680PF 10% 50V
R052	1-216-033-00	METAL GLAZE	220 5% 1/10W	C710	1-102-820-00	CERAMIC	330PF 5% 50V
R053	1-216-033-00	METAL GLAZE	220 5% 1/10W	C711	1-126-233-11	ELECT	22MF 20% 25V
R054	1-216-033-00	METAL GLAZE	220 5% 1/10W	C712	1-102-820-00	CERAMIC	330PF 5% 50V
R055	1-216-033-00	METAL GLAZE	220 5% 1/10W	C713	1-102-820-00	CERAMIC	330PF 5% 50V
R056	1-216-033-00	METAL GLAZE	220 5% 1/10W	C715	1-102-074-00	CERAMIC	0.001MF 10% 50V
R057	1-216-033-00	METAL GLAZE	220 5% 1/10W	C719	1-101-880-00	CERAMIC	47PF 5% 50V
R058	1-216-033-00	METAL GLAZE	220 5% 1/10W	C730	1-164-083-11	CERAMIC	680PF 10% 50V
R059	1-216-033-00	METAL GLAZE	220 5% 1/10W	C731	1-164-083-11	CERAMIC	680PF 10% 50V
R064	1-216-073-00	METAL GLAZE	10K 5% 1/10W	C732	1-164-083-11	CERAMIC	680PF 10% 50V
R065	1-216-033-00	METAL GLAZE	220 5% 1/10W	C733	1-102-074-00	CERAMIC	0.001MF 10% 50V
R066	1-216-033-00	METAL GLAZE	220 5% 1/10W	<CONNECTOR>			
R067	1-216-033-00	METAL GLAZE	220 5% 1/10W	CN701	*1-691-134-11	PIN, CONNECTOR (PC BOARD) 2P	
R068	1-216-033-00	METAL GLAZE	220 5% 1/10W	CN702	*1-573-964-11	PIN, CONNECTOR (PC BOARD) 6P	
R069	1-216-033-00	METAL GLAZE	220 5% 1/10W	CN703	*1-564-509-11	PLUG, CONNECTOR 6P	
R070	1-216-033-00	METAL GLAZE	220 5% 1/10W				
R071	1-216-033-00	METAL GLAZE	220 5% 1/10W				
R072	1-216-033-00	METAL GLAZE	220 5% 1/10W				
R073	1-216-033-00	METAL GLAZE	220 5% 1/10W				
R074	1-216-033-00	METAL GLAZE	220 5% 1/10W				
R075	1-216-033-00	METAL GLAZE	220 5% 1/10W				
R076	1-216-033-00	METAL GLAZE	220 5% 1/10W				
R077	1-216-033-00	METAL GLAZE	220 5% 1/10W				
R078	1-216-033-00	METAL GLAZE	220 5% 1/10W				
R079	1-216-033-00	METAL GLAZE	220 5% 1/10W				
R080	1-216-033-00	METAL GLAZE	220 5% 1/10W				
R081	1-216-033-00	METAL GLAZE	220 5% 1/10W				



C

Vm

The components identified by shading and mark  $\Delta$  are critical for safety.  
Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
<DIODE>							
D701	8-719-911-19	DIODE 1SS119		R729	1-249-405-11	CARBON 100 5% 1/4W	
D702	8-719-911-19	DIODE 1SS119		R730	1-249-412-11	CARBON 390 5% 1/4W	
D703	8-719-911-19	DIODE 1SS119		R731	1-247-713-11	CARBON 1K 5% 1/4W	F
D704	8-719-911-19	DIODE 1SS119		R732	1-247-713-11	CARBON 1K 5% 1/4W	F
D705	8-719-911-19	DIODE 1SS119		R733	1-247-713-11	CARBON 1K 5% 1/4W	F
D706	8-719-911-19	DIODE 1SS119		R735	1-249-423-11	CARBON 3.3K 5% 1/4W	
D707	8-719-911-19	DIODE 1SS119		R739	1-215-453-00	METAL 22K 1% 1/4W	
D708	8-719-911-19	DIODE 1SS119		R742	1-215-474-00	METAL 160K 1% 1/4W	
D709	8-719-911-19	DIODE 1SS119		R743	1-215-461-00	METAL 47K 1% 1/4W	
D713	8-719-911-19	DIODE 1SS119		R744	1-215-463-00	METAL 56K 1% 1/4W	
D714	8-719-911-19	DIODE 1SS119		R748	1-216-367-11	METAL OXIDE 0.68 5% 2W	F
D715	8-719-911-19	DIODE 1SS119		R749	1-249-415-11	CARBON 680 5% 1/4W	
D716	8-719-911-19	DIODE 1SS119		R751	1-249-401-11	CARBON 47 5% 1/4W	
D718	8-719-110-14	DIODE RD9.1ES-B3		R752	1-249-401-11	CARBON 47 5% 1/4W	
<JACK>				R753	1-249-401-11	CARBON 47 5% 1/4W	
J701	1-540-223-11	SOCKET, PICTURE TUBE		R754	1-249-415-11	CARBON 680 5% 1/4W	
<COIL>				R755	1-249-423-11	CARBON 3.3K 5% 1/4W	
L701	1-410-671-31	INDUCTOR 47UH		<VARIABLE RESISTOR>			
L702	1-410-645-31	INDUCTOR 100UH		RV701	1-230-641-11	RES, ADJ, METAL GLAZE 2.2M	
L703	1-410-674-31	INDUCTOR 82UH		RV702	1-241-714-12	RES, ADJ, METAL FILM 110M	
L704	1-410-471-11	INDUCTOR 12UH		RV704	1-228-991-00	RES, ADJ, CARBON 2.2K	
L705	1-410-473-11	INDUCTOR 18UH		RV705	1-228-991-00	RES, ADJ, CARBON 2.2K	
L706	1-410-645-31	INDUCTOR 100UH		*****			
L707	1-408-411-00	INDUCTOR 15UH		*A-1342-186-A	VM BOARD, COMPLETE	*****	
<TRANSISTOR>				*4-341-751-01	EYELET (EY5)		
Q701	8-729-326-11	TRANSISTOR 2SC2611		*4-341-752-01	EYELET (EY1-EY4)		
Q702	3-704-359-01	SCREW (M3X10), SW (+) P; Q701		<CAPACITOR>			
Q703	8-729-119-78	TRANSISTOR 2SC2785-HFE		C1751	1-102-074-00	CERAMIC 0.001MF 10% 50V	
Q704	8-729-200-17	TRANSISTOR 2SA1091-0		C1752	1-102-125-00	CERAMIC 0.0047MF 10% 50V	
Q705	3-704-359-01	SCREW (M3X10), SW (+) P; Q704		C1761	1-161-830-00	CERAMIC 0.0047MF 500V	
Q706	8-729-119-78	TRANSISTOR 2SC2785-HFE		C1762	1-102-951-00	CERAMIC 15PF 5% 50V	
Q707	8-729-200-17	TRANSISTOR 2SA1091-0		C1763	1-123-935-00	ELECT 33MF 20% 160V	
Q708	8-729-326-11	TRANSISTOR 2SC2611		C1764	1-126-101-11	ELECT 100MF 20% 16V	
Q709	3-704-359-01	SCREW (M3X10), SW (+) P; Q708		C1768	1-106-383-00	MYLAR 0.047MF 200V	
Q709	8-729-119-78	TRANSISTOR 2SC2785-HFE		C1769	1-124-799-11	ELECT 2.2MF 20% 160V	
<RESISTOR>				C1770	1-106-391-12	MYLAR 0.1MF 10% 200V	
R702	1-202-883-11	SOLID 680K 20% 1/2W		C1771	1-126-157-11	ELECT 10MF 20% 16V	
R703	1-202-838-00	SOLID 100K 20% 1/2W		C1772	1-124-119-00	ELECT 330MF 20% 16V	
R706	1-202-815-11	SOLID 47K 20% 1/2W		C1773	1-106-383-00	MYLAR 0.047MF 200V	
R707	1-202-842-11	SOLID 220K 20% 1/2W		C1774	1-102-959-00	CERAMIC 22PF 5% 50V	
R708	1-202-824-00	SOLID 3.3K 20% 1/2W		C1775	1-126-101-11	ELECT 100MF 20% 16V	
R709	1-202-824-00	SOLID 3.3K 20% 1/2W		C1776	1-126-157-11	ELECT 10MF 20% 16V	
R710	1-202-824-00	SOLID 3.3K 20% 1/2W		C1777	1-102-963-00	CERAMIC 33PF 5% 50V	
R713	1-216-486-00	METAL OXIDE 8.2K 5% 3W	F	C1778	1-130-471-00	MYLAR 0.001MF 5% 50V	
R714	1-249-409-11	CARBON 220 5% 1/4W		C1779	1-130-471-00	MYLAR 0.001MF 5% 50V	
R715	1-202-549-00	SOLID 100 20% 1/2W		C1780	1-126-157-11	ELECT 10MF 20% 16V	
R716	1-216-486-00	METAL OXIDE 8.2K 5% 3W	F	<CONNECTOR>			
R717	1-249-409-11	CARBON 220 5% 1/4W		CN1763	1-564-512-11	PLUG, CONNECTOR 9P	
R718	1-249-409-11	CARBON 220 5% 1/4W		<DIODE>			
R720	1-216-486-00	METAL OXIDE 8.2K 5% 3W	F	D1761	8-719-911-19	DIODE 1SS119	
R723	1-249-405-11	CARBON 100 5% 1/4W		D1763	8-719-911-19	DIODE 1SS119	
R724	1-249-405-11	CARBON 100 5% 1/4W		D1764	8-719-911-19	DIODE 1SS119	
R726	1-249-416-11	CARBON 820 5% 1/4W		D1765	8-719-911-19	DIODE 1SS119	
R728	1-249-415-11	CARBON 680 5% 1/4W		D1766	8-719-911-19	DIODE 1SS119	

The components identified by shading and mark  $\Delta$  are critical for safety.  
Replace only with part number specified.

KV-S29JN1/S29MN1/S29SN1/S34JN1/S34MN1/S34SN1  
RM-82

Vm

D

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
D1767	8-719-110-88	DIODE RD39ES-B2		*A-1346-107-A	D BOARD, COMPLETE (KV-S34SN1)		
D1768	8-719-110-88	DIODE RD39ES-B2			*****		
<COIL>				*4-341-751-01	EYELET (EY1-EY7, EY20-EY27, EY35-EY41, EY47-EY60, EY62-EY69, EY78-EY96, EY99-EY104)		
L1762	1-408-416-00	INDUCTOR 39UH		*4-341-752-01	EYELET (EY8-EY19, EY28-EY34, EY42-EY46, EY70-EY77)		
<TRANSISTOR>				<CAPACITOR>			
Q1756	8-729-119-78	TRANSISTOR 2SC2785-HFE		C501	1-130-471-00	FILM 0.001MF 5% 50V	
Q1761	8-729-119-78	TRANSISTOR 2SC2785-HFE		C503	1-136-161-00	FILM 0.047MF 5% 50V	
Q1762	8-729-119-76	TRANSISTOR 2SA1175-HFE		C504	1-124-465-00	ELECT 0.47MF 20% 50V	
Q1763	8-729-208-39	TRANSISTOR 2SA1306A-Y		C505	1-130-473-00	MYLAR 0.0015MF 5% 50V	
	4-382-854-11	SCREW (M3X10), P, SW (+); Q1763				(KV-S29JN1, S29MN1, S29SN1)	
Q1764	8-729-119-78	TRANSISTOR 2SC2785-HFE			1-130-474-00	MYLAR 0.0018MF 5% 50V	
Q1765	8-729-208-72	TRANSISTOR 2SC3298B-Y				(KV-S34JN1, S34MN1, S34SN1)	
	4-382-854-11	SCREW (M3X10), P, SW (+); Q1765		C506	1-136-165-00	FILM 0.1MF 5% 50V	
Q1766	8-729-119-78	TRANSISTOR 2SC2785-HFE		C507	1-124-480-11	ELECT 470MF 20% 25V	
Q1767	8-729-142-86	TRANSISTOR 2SC3733		C509	1-130-471-00	MYLAR 0.001MF 5% 50V	
<RESISTOR>				C510	1-126-529-11	ELECT 0.47MF 20% 50V	
R1736	1-249-419-11	CARBON 1.5K 5% 1/4W		C511	1-126-233-11	ELECT 22MF 20% 50V	
R1751	1-249-434-11	CARBON 27K 5% 1/4W		C512	1-130-491-00	MYLAR 0.047MF 5% 50V	
R1752	1-249-423-11	CARBON 3.3K 5% 1/4W		C513	1-124-477-11	ELECT 47MF 20% 25V	
R1753	1-249-405-11	CARBON 100 5% 1/4W		C514	1-124-790-11	ELECT 0.47MF 20% 100V	
R1754	1-247-903-00	CARBON 1M 5% 1/4W		C515	1-126-233-11	ELECT 22MF 20% 50V	
R1755	1-249-421-11	CARBON 2.2K 5% 1/4W		C516	1-124-791-11	ELECT 1MF 20% 50V	
R1762	1-249-409-11	CARBON 220 5% 1/4W		C517	1-102-114-00	CERAMIC 470PF 10% 50V	
R1764	1-247-734-11	CARBON 39 5% 1/2W	F	C518	1-124-499-11	ELECT 1MF 20% 50V	
R1765	1-249-414-11	CARBON 560 5% 1/4W	F	C519	1-102-110-00	CERAMIC 220PF 10% 50V	
R1766	1-249-418-11	CARBON 1.2K 5% 1/4W		C520	1-102-942-00	CERAMIC 5PF 0.5PF 50V	
R1768	1-249-418-11	CARBON 1.2K 5% 1/4W		C521	1-124-480-11	ELECT 470MF 20% 25V	
R1769	1-249-384-11	CARBON 1.8 5% 1/4W	F	C522	1-124-261-00	ELECT 10MF 20% 50V	
R1770	1-249-435-11	CARBON 33K 5% 1/4W		C523	1-130-471-00	MYLAR 0.001MF 5% 50V	
R1772	1-249-432-11	CARBON 18K 5% 1/4W		C524	1-162-318-11	CERAMIC 0.001MF 10% 500V	
R1774	1-216-476-11	METAL OXIDE 180 5% 3W	F	C525	1-130-495-00	MYLAR 0.1MF 5% 50V	
R1775	1-249-417-11	CARBON 1K 5% 1/4W	F	C526	1-126-176-11	ELECT 220MF 20% 10V	
R1776	1-249-432-11	CARBON 18K 5% 1/4W		C527	1-124-911-11	ELECT 220MF 20% 50V	
R1777	1-249-438-11	CARBON 56K 5% 1/4W		C528	1-162-117-00	CERAMIC 100PF 10% 500V	
R1778	1-249-430-11	CARBON 12K 5% 1/4W		C529	1-136-171-00	FILM 0.33MF 5% 50V	
R1779	1-249-414-11	CARBON 560 5% 1/4W		C530	1-106-222-00	MYLAR 0.12MF 10% 100V	
R1780	1-249-420-11	CARBON 1.8K 5% 1/4W		C531	1-130-471-00	MYLAR 0.001MF 5% 50V	
R1781	1-249-415-11	CARBON 680 5% 1/4W		C532	1-106-391-12	MYLAR 0.1MF 10% 200V	
R1782	1-249-384-11	CARBON 1.8 5% 1/4W	F	C533	1-130-651-00	FILM 0.001MF 2% 100V	
R1783	1-249-441-11	CARBON 100K 5% 1/4W		C534	1-162-132-00	CERAMIC 270PF 10% 2KV	
R1784	1-249-405-11	CARBON 100 5% 1/4W		C535	1-124-472-11	ELECT 470MF 20% 10V	
R1785	1-249-400-11	CARBON 39 5% 1/4W	F	C537	1-106-355-12	MYLAR 0.0033MF 20% 200V	
R1786	1-249-435-11	CARBON 33K 5% 1/4W		C538	1-137-514-21	FILM 0.021MF 2% 200V	
R1787	1-249-428-11	CARBON 8.2K 5% 1/4W		C539 $\Delta$	1-162-116-91	CERAMIC 680PF 10% 2KV	
R1788	1-249-418-11	CARBON 1.2K 5% 1/4W		C540	1-136-161-00	FILM 0.047MF 5% 50V	
R1789	1-249-413-11	CARBON 470 5% 1/4W		C541	1-137-515-11	FILM 0.056MF 3% 400V	
R1790	1-216-451-11	METAL OXIDE 120 5% 2W	F	C542 $\Delta$	1-162-116-91	CERAMIC 680PF 10% 2KV	
R1791	1-249-411-11	CARBON 330 5% 1/4W		C543 $\Delta$	1-162-116-91	CERAMIC 680PF 10% 2KV	
				C544	1-130-495-00	MYLAR 0.1MF 5% 50V	
				C545	1-124-510-11	ELECT 220MF 20% 25V	
*****						(KV-S29JN1, S29MN1, S29SN1)	
*A-1346-075-A	D BOARD, COMPLETE (KV-S29JN1, S29MN1)				1-124-480-11	ELECT 470MF 20% 25V	
	*****					(KV-S34JN1, S34MN1, S34SN1)	
*A-1346-110-A	D BOARD, COMPLETE (KV-S29SN1)			C546	1-130-487-00	MYLAR 0.022MF 5% 50V	
	*****			C547	1-106-359-00	MYLAR 0.0047MF 10% 200V	
*A-1346-064-A	D BOARD, COMPLETE (KV-S34JN1)			C549	1-124-477-11	ELECT 47MF 20% 25V	
	*****			C550	1-137-114-11	FILM 0.68MF 5% 200V	
*A-1346-106-A	D BOARD, COMPLETE (KV-S34MN1)			C551	1-136-167-00	FILM 0.15MF 5% 50V	
	*****			C553	1-136-105-00	FILM 0.33MF 5% 200V	

D

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C554	1-124-808-51	ELECT	10MF 20% 200V	D510	8-719-911-19	DIODE 1SS119	
C555	1-137-516-11	FILM	1.2MF 5% 200V	D511	8-719-110-03	DIODE RD7.5ES-B2	
C556	1-124-514-11	ELECT	100MF 20% 50V	D512	8-719-110-72	DIODE RD30ES-B2	
C557	1-124-477-11	ELECT	47MF 20% 25V	D513	8-719-300-33	DIODE RU-3AM	
C558	1-102-038-00	CERAMIC	0.001MF 500V	D515	8-719-109-88	DIODE RD5.6ES-B1	
C560	1-106-391-12	MYLAR	0.1MF 10% 200V	D516	8-719-300-33	DIODE RU-3AM	
C561	1-102-244-00	CERAMIC	220PF 10% 500V	D517	8-719-110-78	DIODE RD33ES-B2	
C563	1-106-343-00	MYLAR	0.001MF 10% 100V	D519	8-719-911-55	DIODE U05G	
C565	1-130-495-00	MYLAR	0.1MF 5% 50V	D520	8-719-911-19	DIODE 1SS119	
C566	1-124-261-00	ELECT	10MF 20% 50V	D521	8-719-911-55	DIODE U05G	
C567	1-124-480-11	ELECT	470MF 20% 25V	D522	8-719-976-64	DIODE RGP02-17	
C568	1-102-228-00	CERAMIC	470PF 10% 500V	D523	8-719-109-84	DIODE RD5.1ES-B1	
C569	1-136-161-00	FILM	0.047MF 5% 50V	D524	8-719-312-72	DIODE RU30A	
C570	1-124-120-11	ELECT	220MF 20% 25V (KV-S29JN1, S29MN1, S29SN1)	D526	8-719-911-19	DIODE 1SS119	
C571	1-130-467-00	MYLAR	470PF 5% 50V	D527	8-719-300-33	DIODE RU-3AM	
C575	1-137-116-11	FILM	1MF 5% 200V (KV-S29JN1, S29MN1, S29SN1)	D528	8-719-979-85	DIODE EGP20G	
	1-137-114-11	FILM	0.68MF 5% 200V (KV-S34JN1, S34MN1, S34SN1)	D531	8-719-911-19	DIODE 1SS119	
C577	1-123-947-00	ELECT	10MF 20% 250V	D532	8-719-943-06	DIODE ERB24-06D	
C578	1-124-907-11	ELECT	10MF 20% 50V	D533	8-719-970-87	DIODE ERA38-06	
C579	1-123-950-00	ELECT	47MF 20% 250V	D534	8-719-018-82	DIODE RGP02-20EL-6394	
C581	1-124-480-11	ELECT	470MF 20% 25V	D535	8-719-110-13	DIODE RD9.1ES-B2	
C582	1-102-228-00	CERAMIC	470PF 10% 500V	D536	1-249-429-11	CARBON 10K 5% 1/4W	
C583	1-124-910-11	ELECT	47MF 20% 50V	<IC>			
C585	1-136-497-81	FILM	0.1MF 5% 50V	IC501	1-809-538-11	IC PM-26	
C586	1-106-387-00	MYLAR	0.068MF 10% 200V	IC502	8-759-987-16	IC LM393P	
C587	1-129-898-00	FILM	0.0022MF 5% 630V	IC503	8-759-506-46	IC TDA8179S	
C588	1-136-169-00	FILM	0.22MF 5% 50V		4-382-854-11	SCREW (M3X10), P, SW (+); IC503	
C589	1-124-347-00	ELECT	100MF 20% 160V	IC504	8-759-982-13	IC RC7812FA	
C590	1-102-244-00	CERAMIC	220PF 10% 500V		4-382-854-11	SCREW (M3X10), P, SW (+); IC504	
C592	1-129-702-00	FILM	0.001MF 10% 630V	IC507	8-759-987-16	IC LM393P	
C593	1-162-114-00	CERAMIC	0.0047MF 2KV	IC508	8-759-142-04	IC UPC7893HF	
C594	1-136-314-91	FILM	0.022MF 5% 630V		4-382-854-11	SCREW (M3X10), P, SW (+); IC508	
C595	1-124-797-11	ELECT	0.47MF 20% 160V	IC509	8-759-802-23	IC L780512	
C600	1-130-495-00	MYLAR	0.1MF 5% 50V		4-382-854-11	SCREW (M3X10), P, SW (+); IC509	
<CONNECTOR>				<COIL>			
CN501	*1-564-513-11	PLUG, CONNECTOR 10P		L501	1-412-531-31	INDUCTOR 33UH (KV-S29JN1, S29MN1, S29SN1, S34JN1, S34SN1)	
CN502	1-573-296-11	CONNECTOR, BOARD TO BOARD 10P		L504	1-410-455-11	INDUCTOR 10MMH	
CN503	*1-573-964-11	PIN, CONNECTOR (PC BOARD) 6P		L505	1-412-531-31	INDUCTOR 33UH (KV-S29JN1, S29MN1, S29SN1, S34JN1, S34SN1)	
CN504	*1-580-798-11	CONNECTOR PIN (DY) 6P		L506	1-459-483-00	COIL (WITH CORE)	
CN505	*1-564-513-11	PLUG, CONNECTOR 10P		L507	1-421-541-00	COIL, CHOKE 1000UH	
CN506	*1-573-986-11	PIN, CONNECTOR (PC BOARD) 5P		L509	1-459-104-00	COIL, WITH CORE	
CN507	1-573-296-11	CONNECTOR, BOARD TO BOARD 10P		L510	1-460-197-11	COIL, FERRITE (PMC)	
CN508	1-573-296-11	CONNECTOR, BOARD TO BOARD 10P		L511	1-412-519-11	INDUCTOR 3.3UH	
CN510	*1-508-767-00	PIN, CONNECTOR (5MM PITCH) 5P		L512	1-459-123-00	COIL, DUST CORE (PAC)	
CN511	*1-508-784-00	PIN, CONNECTOR (5MM PITCH) 1P		L513	1-412-519-11	INDUCTOR 3.3UH	
<DIODE>				L514	1-412-531-31	INDUCTOR 33UH (KV-S29JN1, S29MN1, S29SN1, S34JN1, S34SN1)	
D501	8-719-911-19	DIODE 1SS119		L516	1-412-552-31	INDUCTOR 2.2MMH	
D502	8-719-109-88	DIODE RD5.6ES-B1		L517	1-459-104-00	COIL, DUST CORE	
D503	8-719-109-88	DIODE RD5.6ES-B1		<TRANSISTOR>			
D504	8-719-109-93	DIODE RD6.2ES-B2		Q501	8-729-119-76	TRANSISTOR 2SA1175-HFE	
D505	8-719-911-19	DIODE 1SS119		Q502	8-729-119-78	TRANSISTOR 2SC2785-HFE	
D506	8-719-911-19	DIODE 1SS119		Q503	8-729-119-78	TRANSISTOR 2SC2785-HFE	
D507	8-719-911-19	DIODE 1SS119		Q504	8-729-119-76	TRANSISTOR 2SA1175-HFE	
D508	8-719-911-19	DIODE 1SS119					
D509	8-719-911-55	DIODE U05G					

D

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
Q505	8-729-119-78	TRANSISTOR 2SC2785-HFE		R549	1-216-481-11	METAL OXIDE 1.2K 5% 3W	F
Q506	8-729-119-78	TRANSISTOR 2SC2785-HFE		R550	1-249-393-11	CARBON 10 5% 1/4W	F
Q507	8-729-119-80	TRANSISTOR 2SC2688-LK		R551	1-249-401-11	CARBON 47 5% 1/4W	
Q508	8-729-140-97	TRANSISTOR 2SB734-34		R552	1-249-419-11	CARBON 1.5K 5% 1/4W	
Q509	8-729-140-96	TRANSISTOR 2SD774-34		R553	1-215-878-00	METAL OXIDE 33K 5% 1W	F
Q510	8-729-119-76	TRANSISTOR 2SA1175-HFE		R554	1-249-417-11	CARBON 1K 5% 1/4W	
Q511	8-729-011-00	TRANSISTOR 2SK1916-53F87		R555	1-249-432-11	CARBON 18K 5% 1/4W	
	4-382-854-11	SCREW (M3X10), P, SW (+); Q511		R556	1-249-432-11	CARBON 18K 5% 1/4W	
Q512	8-729-011-07	TRANSISTOR 2SC4763 (LBSONY)		R557	1-249-437-11	CARBON 47K 5% 1/4W	
	4-382-854-11	SCREW (M3X10), P, SW (+); Q512		R558	1-247-887-00	CARBON 220K 5% 1/4W	
Q513	8-729-119-76	TRANSISTOR 2SA1175-HFE		R559	1-249-429-11	CARBON 10K 5% 1/4W	
Q514	8-729-900-36	TRANSISTOR DTC124ES		R560	1-215-888-00	METAL OXIDE 220 5% 2W	F
Q515	8-729-119-76	TRANSISTOR 2SA1175-HFE		R561	1-249-437-11	CARBON 47K 5% 1/4W	
Q519	8-729-119-76	TRANSISTOR 2SA1175-HFE		R562	1-249-431-11	CARBON 15K 5% 1/4W	
Q520	8-729-119-78	TRANSISTOR 2SC2785-HFE		R563	1-249-425-11	CARBON 4.7K 5% 1/4W	
Q521	8-729-900-36	TRANSISTOR DTC124ES		R564	1-249-417-11	CARBON 1K 5% 1/4W	F
Q523	8-729-011-06	TRANSISTOR 2SC3840K		R566	1-215-883-11	METAL OXIDE 33 5% 2W	F
<RESISTOR>						(KV-S29JN1, S29MN1, S34JN1, S34SN1)	
R501	1-215-449-00	METAL 15K 1% 1/4W			1-216-361-00	METAL OXIDE 0.22 5% 2W	F
R502	1-249-423-11	CARBON 3.3K 5% 1/4W				(KV-S29SN1, S34MN1)	
R503	1-249-441-11	CARBON 100K 5% 1/4W		R567	1-215-889-00	METAL OXIDE 330 5% 2W	F
R504	1-249-441-11	CARBON 100K 5% 1/4W				(KV-S29JN1, S29MN1, S34JN1, S34SN1)	
R505	1-247-887-00	CARBON 220K 5% 1/4W			1-215-886-11	METAL OXIDE 100 5% 2W	F
R506	1-249-440-11	CARBON 82K 5% 1/4W			1-215-885-00	METAL OXIDE 68 5% 2W	F
R507	1-249-425-11	CARBON 4.7K 5% 1/4W				(KV-S29SN1)	
R508	1-249-435-11	CARBON 33K 5% 1/4W		R569	1-215-881-11	METAL OXIDE 15 5% 2W	F
R509	1-249-441-11	CARBON 100K 5% 1/4W		R571	1-215-887-00	METAL OXIDE 150 5% 2W	F
R510	1-249-433-11	CARBON 22K 5% 1/4W			1-215-889-00	METAL OXIDE 330 5% 2W	F
R511	1-249-425-11	CARBON 4.7K 5% 1/4W				(KV-S29JN1, S29MN1, S34JN1, S34SN1)	
R512	1-249-433-11	CARBON 22K 5% 1/4W				(KV-S29SN1)	
R513	1-249-441-11	CARBON 100K 5% 1/4W		R572	1-215-909-11	METAL OXIDE 47 5% 3W	F
R514	1-249-436-11	CARBON 39K 5% 1/4W				(KV-S29JN1, S29MN1, S29SN1, S34JN1, S34SN1)	
R515	1-215-468-00	METAL 91K 1% 1/4W			1-215-912-11	METAL OXIDE 150 5% 3W	F
R516	1-249-425-11	CARBON 4.7K 5% 1/4W				(KV-S34MN1)	
R517	1-249-433-11	CARBON 22K 5% 1/4W		R573	1-249-440-11	CARBON 82K 5% 1/4W	
R518	1-249-438-11	CARBON 56K 5% 1/4W		R574	1-247-903-00	CARBON 1M 5% 1/4W	
R519	1-215-880-00	METAL OXIDE 10 5% 2W	F	R575	1-249-429-11	CARBON 10K 5% 1/4W	
R520	1-249-411-11	CARBON 330 5% 1/4W	F	R576	1-249-417-11	CARBON 1K 5% 1/4W	
R521	1-215-449-00	METAL 15K 1% 1/4W		R577	1-249-389-11	CARBON 4.7 5% 1/4W	F
R522	1-249-425-11	CARBON 4.7K 5% 1/4W		R578	1-247-743-11	CARBON 220 5% 1/2W	F
R524	1-215-433-00	METAL 3.3K 1% 1/4W		R579	1-249-417-11	CARBON 1K 5% 1/4W	
R525	1-215-463-00	METAL 56K 1% 1/4W		R581	1-249-421-11	CARBON 2.2K 5% 1/4W	
R526	1-249-436-11	CARBON 39K 5% 1/4W		R582	1-249-424-11	CARBON 3.9K 5% 1/4W	
R527	1-249-431-11	CARBON 15K 5% 1/4W		R585	1-249-429-11	CARBON 10K 5% 1/4W	
R528	1-215-445-00	METAL 10K 1% 1/4W		R586	1-249-437-11	CARBON 47K 5% 1/4W	
R529	1-215-471-00	METAL 120K 1% 1/4W		R588	1-249-415-11	CARBON 680 5% 1/4W	
R530	1-249-425-11	CARBON 4.7K 5% 1/4W		R590	1-249-438-11	CARBON 56K 5% 1/4W	
R531	1-249-423-11	CARBON 3.3K 5% 1/4W		R593	1-249-441-11	CARBON 100K 5% 1/4W	
R532	1-215-453-00	METAL 22K 1% 1/4W		R594	1-249-437-11	CARBON 47K 5% 1/4W	
R534	1-247-903-00	CARBON 1M 5% 1/4W		R597	1-247-705-11	CARBON 270 5% 1/4W	F
R535	1-249-393-11	CARBON 10 5% 1/4W	F	R603	1-215-450-00	METAL 16K 1% 1/4W	
R536	1-215-455-00	METAL 27K 1% 1/4W		R605	1-249-402-11	CARBON 56 5% 1/4W	
R537	1-247-755-11	CARBON 1.8K 5% 1/2W	F	R606	1-249-411-11	CARBON 330 5% 1/4W	
R538	1-249-383-11	CARBON 1.5 5% 1/4W	F	R607	1-215-882-00	METAL OXIDE 22 5% 2W	F
R539	1-249-417-11	CARBON 1K 5% 1/4W		R608	1-247-901-11	CARBON 820K 5% 1/4W	
R541	1-215-457-00	METAL 33K 1% 1/4W		R609	1-249-441-11	CARBON 100K 5% 1/4W	
R542	1-215-465-00	METAL 68K 1% 1/4W		R612	1-249-443-11	CARBON 0.47 5% 1/4W	F
R543	1-215-913-11	METAL OXIDE 220 5% 3W	F	R614	1-249-435-11	CARBON 33K 5% 1/4W	
R544	1-249-397-11	CARBON 22 5% 1/4W	F	R616	1-249-443-11	CARBON 0.47 5% 1/4W	F
R545	1-215-441-00	METAL 6.8K 1% 1/4W					
R546	1-216-369-00	METAL OXIDE 1 5% 2W	F				
R548	1-215-917-11	METAL OXIDE 1K 5% 3W	F				

D

V

The components identified by shading and mark  $\Delta$  are critical for safety.  
Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R623	1-259-882-11	CARBON	3.3M 5% 1/4W	D15	8-719-911-19	DIODE ISS119	
R624	1-216-439-00	METAL OXIDE	12K 5% 1W F			<IC>	
R625	1-216-459-00	METAL OXIDE	2.7K 5% 2W F	IC01	8-759-067-58	IC MAB8461P-W220	
R627	1-216-459-00	METAL OXIDE	2.7K 5% 2W F	IC02	8-759-067-32	IC SAA5246AP/T	
R628	1-249-398-11	CARBON	27 5% 1/4W F	IC03	8-752-331-22	IC CXK5864BSP-10L	
				IC04	8-759-340-13	IC HD14013BP	
R630	1-215-869-11	METAL OXIDE	1K 5% 1W F			<COIL>	
R634	1-249-441-11	CARBON	100K 5% 1/4W	L01	1-410-322-11	INDUCTOR	3.3UH
R635	1-249-441-11	CARBON	100K 5% 1/4W	L02	1-408-407-00	INDUCTOR	6.8UH
R636	1-249-441-11	CARBON	100K 5% 1/4W	L03	1-408-407-00	INDUCTOR	6.8UH
				L04	1-408-407-00	INDUCTOR	6.8UH
		<SPARK GAP>				<IC LINK>	
SG501	1-519-422-11	GAP, SPARK		PS01	$\Delta$ 1-532-679-91	LINK, IC 0.6A	
		<TRANSFORMER>				<TRANSISTOR>	
T501	1-437-195-11	TRANSFORMER, HORIZONTAL DRIVE		Q01	8-729-900-53	TRANSISTOR DTC114EK	
T502	1-460-199-11	TRANSFORMER (HLT)		Q02	8-729-209-15	TRANSISTOR 2SD2012	
T503	$\Delta$ 1-439-524-11	TRANSFORMER ASSY, FLYBACK (NX-3000A2)		Q03	8-729-920-74	TRANSISTOR 2SC2412K-QR	
T504	1-424-584-11	TRANSFORMER, DYNAMIC FOCUS		Q04	8-729-920-74	TRANSISTOR 2SC2412K-QR	
		<THERMISTOR>		Q05	8-729-230-46	TRANSISTOR 2SA1162-YG	
THP501	$\Delta$ 1-807-925-11	THERMISTOR		Q06	8-729-230-46	TRANSISTOR 2SA1162-YG	
		*****		Q07	8-729-230-46	TRANSISTOR 2SA1162-YG	
	*A-1347-062-A	V BOARD, COMPLETE	*****	Q08	8-729-920-74	TRANSISTOR 2SC2412K-QR	
		<CAPACITOR>				<RESISTOR>	
C01	1-126-101-11	ELECT	100MF 20% 16V	JR01	1-216-296-00	METAL GLAZE	0 5% 1/8W
C02	1-163-038-00	CERAMIC CHIP	0.1MF 25V	JR02	1-216-296-00	METAL GLAZE	0 5% 1/8W
C03	1-124-120-11	ELECT	220MF 20% 16V	JR03	1-216-296-00	METAL GLAZE	0 5% 1/8W
C04	1-163-038-00	CERAMIC CHIP	0.1MF 25V	JR04	1-216-296-00	METAL GLAZE	0 5% 1/8W
C05	1-124-120-11	ELECT	220MF 20% 16V	JR05	1-216-296-00	METAL GLAZE	0 5% 1/8W
C06	1-163-038-00	CERAMIC CHIP	0.1MF 25V	JR06	1-216-295-00	METAL GLAZE	0 5% 1/10W
C07	1-163-093-00	CERAMIC CHIP	10PF 5% 50V	JR07	1-216-296-00	METAL GLAZE	0 5% 1/8W
C08	1-163-097-00	CERAMIC CHIP	15PF 5% 50V	JR08	1-216-296-00	METAL GLAZE	0 5% 1/8W
C09	1-163-141-00	CERAMIC CHIP	0.001MF 5% 50V	JR09	1-216-295-00	METAL GLAZE	0 5% 1/10W
C10	1-163-038-00	CERAMIC CHIP	0.1MF 25V	JR10	1-216-295-00	METAL GLAZE	0 5% 1/10W
C11	1-163-038-00	CERAMIC CHIP	0.1MF 25V	JR11	1-216-295-00	METAL GLAZE	0 5% 1/10W
C12	1-163-038-00	CERAMIC CHIP	0.1MF 25V	JR12	1-216-295-00	METAL GLAZE	0 5% 1/10W
C13	1-163-038-00	CERAMIC CHIP	0.1MF 25V	JR13	1-216-295-00	METAL GLAZE	0 5% 1/10W
C14	1-126-101-11	ELECT	100MF 20% 16V	JR14	1-216-295-00	METAL GLAZE	0 5% 1/10W
C15	1-124-927-11	ELECT	4.7MF 20% 50V	JR15	1-216-296-00	METAL GLAZE	0 5% 1/8W
C16	1-163-141-00	CERAMIC CHIP	0.001MF 5% 50V	JR17	1-216-295-00	METAL GLAZE	0 5% 1/10W
C17	1-163-141-00	CERAMIC CHIP	0.001MF 5% 50V	JR18	1-216-296-00	METAL GLAZE	0 5% 1/8W
C23	1-216-295-00	METAL GLAZE	0 5% 1/10W	JR24	1-216-295-00	METAL GLAZE	0 5% 1/10W
		<CONNECTOR>		JR28	1-216-295-00	METAL GLAZE	0 5% 1/10W
CN01	*1-565-393-11	CONNECTOR, BOARD TO BOARD		JR29	1-216-296-00	METAL GLAZE	0 5% 1/8W
CN02	*1-565-393-11	CONNECTOR, BOARD TO BOARD		JR31	1-216-295-00	METAL GLAZE	0 5% 1/10W
		<DIODE>		JR32	1-216-295-00	METAL GLAZE	0 5% 1/10W
D01	8-719-105-92	DIODE RD5.6M-B3		JR33	1-216-295-00	METAL GLAZE	0 5% 1/10W
D03	8-719-914-44	DIODE DAP202K		JR36	1-216-296-00	METAL GLAZE	0 5% 1/8W
D04	8-719-400-18	DIODE MA152WK		JR37	1-216-295-00	METAL GLAZE	0 5% 1/10W
D05	8-719-914-44	DIODE DAP202K		JR39	1-216-295-00	METAL GLAZE	0 5% 1/10W
D06	8-719-400-18	DIODE MA152WK		JR40	1-216-296-00	METAL GLAZE	0 5% 1/8W
D07	8-719-105-52	DIODE RD3.6M-B2		JR41	1-216-296-00	METAL GLAZE	0 5% 1/8W
D14	8-719-911-19	DIODE ISS119		JR208	1-216-295-00	METAL GLAZE	0 5% 1/10W
				JR209	1-216-295-00	METAL GLAZE	0 5% 1/10W
				JR210	1-216-295-00	METAL GLAZE	0 5% 1/10W

**Vc**

(KV-S29JN1, S29MN1, S29SN1)

**H<sub>2</sub>**

-144-



The components identified by shading and mark  $\Delta$  are critical for safety.  
Replace only with part number specified.

KV-S29JN1/S29MN1/S29SN1/S34JN1/S34MN1/S34SN  
RM-82

H2

J

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
Q1903	8-729-900-89	TRANSISTOR DTC144ES		<DIODE>			
Q1904	8-729-900-89	TRANSISTOR DTC144ES		D2301	8-719-110-13	DIODE RD9.1ES-B2	
Q1905	8-729-900-89	TRANSISTOR DTC144ES		D2302	8-719-110-13	DIODE RD9.1ES-B2	
<RESISTOR>				D2303	8-719-110-13	DIODE RD9.1ES-B2	
R1901	1-249-413-11	CARBON	470 5% 1/4W	D2304	8-719-110-13	DIODE RD9.1ES-B2	
R1902	1-249-413-11	CARBON	470 5% 1/4W	D2305	8-719-110-13	DIODE RD9.1ES-B2	
R1903	1-249-413-11	CARBON	470 5% 1/4W	D2306	8-719-110-13	DIODE RD9.1ES-B2	
R1904	1-249-413-11	CARBON	470 5% 1/4W	D2307	8-719-110-13	DIODE RD9.1ES-B2	
R1905	1-249-413-11	CARBON	470 5% 1/4W	D2308	8-719-110-13	DIODE RD9.1ES-B2	
R1911	1-249-401-11	CARBON	47 5% 1/4W	D2309	8-719-110-13	DIODE RD9.1ES-B2	
<SWITCH>				D2310	8-719-110-13	DIODE RD9.1ES-B2	
S1901A	1-571-433-12	SWITCH, PUSH (AC POWER)		D2311	8-719-110-13	DIODE RD9.1ES-B2	
*****				D2312	8-719-110-13	DIODE RD9.1ES-B2	
*A-1388-143-A J BOARD, COMPLETE				D2313	8-719-110-13	DIODE RD9.1ES-B2	
*****				D2314	8-719-110-13	DIODE RD9.1ES-B2	
<CAPACITOR>				D2315	8-719-110-13	DIODE RD9.1ES-B2	
C2301	1-101-004-00	CERAMIC	0.01MF 50V	D2316	8-719-110-13	DIODE RD9.1ES-B2	
C2302	1-101-004-00	CERAMIC	0.01MF 50V	D2317	8-719-110-13	DIODE RD9.1ES-B2	
C2303	1-101-004-00	CERAMIC	0.01MF 50V	D2318	8-719-110-13	DIODE RD9.1ES-B2	
C2304	1-101-004-00	CERAMIC	0.01MF 50V	D2319	8-719-110-13	DIODE RD9.1ES-B2	
C2305	1-101-004-00	CERAMIC	0.01MF 50V	D2320	8-719-110-13	DIODE RD9.1ES-B2	
C2306	1-126-233-11	ELECT	22MF 20% 25V	D2321	8-719-110-13	DIODE RD9.1ES-B2	
C2307	1-126-233-11	ELECT	22MF 20% 25V	D2322	8-719-110-13	DIODE RD9.1ES-B2	
C2308	1-126-233-11	ELECT	22MF 20% 25V	D2323	8-719-110-13	DIODE RD9.1ES-B2	
C2309	1-126-233-11	ELECT	22MF 20% 25V	D2324	8-719-110-13	DIODE RD9.1ES-B2	
C2310	1-126-233-11	ELECT	22MF 20% 25V	D2325	8-719-110-13	DIODE RD9.1ES-B2	
C2311	1-126-103-11	ELECT	470MF 20% 16V	D2326	8-719-110-13	DIODE RD9.1ES-B2	
C2312	1-126-103-11	ELECT	470MF 20% 16V	D2327	8-719-110-13	DIODE RD9.1ES-B2	
C2313	1-124-902-00	ELECT	0.47MF 20% 50V	D2328	8-719-110-13	DIODE RD9.1ES-B2	
C2314	1-124-902-00	ELECT	0.47MF 20% 50V	D2329	8-719-110-13	DIODE RD9.1ES-B2	
C2315	1-124-902-00	ELECT	0.47MF 20% 50V	D2330	8-719-110-13	DIODE RD9.1ES-B2	
C2316	1-124-902-00	ELECT	0.47MF 20% 50V	D2331	8-719-110-13	DIODE RD9.1ES-B2	
C2317	1-126-103-11	ELECT	470MF 20% 16V	D2332	8-719-110-13	DIODE RD9.1ES-B2	
C2318	1-126-103-11	ELECT	470MF 20% 16V	<JACK>			
C2319	1-124-902-00	ELECT	0.47MF 20% 50V	J2301	1-573-967-11	BLOCK, (S) TERMINAL	
C2320	1-124-902-00	ELECT	0.47MF 20% 50V	J2302	1-573-967-11	BLOCK, (S) TERMINAL	
C2321	1-126-103-11	ELECT	470MF 20% 16V	J2303	1-573-971-11	JACK BLOCK, PIN	
C2322	1-126-103-11	ELECT	470MF 20% 16V	J2304	1-573-970-11	BLOCK, (S) TERMINAL	
C2323	1-124-902-00	ELECT	0.47MF 20% 50V	J2305	1-573-969-11	JACK BLOCK, PIN	
C2324	1-124-902-00	ELECT	0.47MF 20% 50V	<RESISTOR>			
C2325	1-124-903-11	ELECT	1MF 20% 50V	R2301	1-249-403-11	CARBON	68 5% 1/4W
C2326	1-124-903-11	ELECT	1MF 20% 50V	R2302	1-249-403-11	CARBON	68 5% 1/4W
C2327	1-124-903-11	ELECT	1MF 20% 50V	R2303	1-249-403-11	CARBON	68 5% 1/4W
C2328	1-124-903-11	ELECT	1MF 20% 50V	R2304	1-247-804-11	CARBON	75 5% 1/4W
C2329	1-124-903-11	ELECT	1MF 20% 50V	R2305	1-247-804-11	CARBON	75 5% 1/4W
C2330	1-124-903-11	ELECT	1MF 20% 50V	R2306	1-247-883-00	CARBON	150K 5% 1/4W
<CONNECTOR>				R2307	1-247-883-00	CARBON	150K 5% 1/4W
CN2301*	1-565-928-11	CONNECTOR (TUB) 30P		R2308	1-247-804-11	CARBON	75 5% 1/4W
CN2302*	1-566-641-11	CONNECTOR, HINGE (TAB) 18P		R2309	1-247-804-11	CARBON	75 5% 1/4W
CN2303*	1-564-517-11	PLUG, CONNECTOR 2P		R2310	1-247-883-00	CARBON	150K 5% 1/4W
CN2304*	1-564-519-11	PLUG, CONNECTOR 4P		R2311	1-247-883-00	CARBON	150K 5% 1/4W
CN2305*	1-564-517-11	PLUG, CONNECTOR 2P		R2312	1-247-804-11	CARBON	75 5% 1/4W
CN2307*	1-564-517-11	PLUG, CONNECTOR 2P		R2313	1-247-883-00	CARBON	150K 5% 1/4W
				R2314	1-247-883-00	CARBON	150K 5% 1/4W
				R2315	1-249-403-11	CARBON	68 5% 1/4W
				R2316	1-249-403-11	CARBON	68 5% 1/4W
				R2317	1-247-895-00	CARBON	470K 5% 1/4W
				R2318	1-247-895-00	CARBON	470K 5% 1/4W
				R2319	1-247-895-00	CARBON	470K 5% 1/4W
				R2320	1-247-895-00	CARBON	470K 5% 1/4W

J

S

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R2321	1-247-895-00	CARBON	470K 5% 1/4W	C3241	1-124-907-11	ELECT	10MF 20% 50V
R2322	1-249-403-11	CARBON	68 5% 1/4W	C3242	1-126-233-11	ELECT	22MF 20% 25V
R2323	1-249-403-11	CARBON	68 5% 1/4W	C3243	1-136-165-00	FILM	0.1MF 5% 50V
R2324	1-247-895-00	CARBON	470K 5% 1/4W	C3244	1-124-907-11	ELECT	10MF 20% 50V
R2325	1-247-895-00	CARBON	470K 5% 1/4W	C3245	1-126-529-11	ELECT	0.47MF 20% 50V
R2326	1-247-895-00	CARBON	470K 5% 1/4W	C3246	1-164-182-11	CERAMIC CHIP	0.0033MF 10% 50V
R2327	1-249-403-11	CARBON	68 5% 1/4W	C3247	1-126-529-11	ELECT	0.47MF 20% 50V
R2328	1-249-403-11	CARBON	68 5% 1/4W	C3248	1-164-182-11	CERAMIC CHIP	0.0033MF 10% 50V
R2329	1-247-895-00	CARBON	470K 5% 1/4W				
R2330	1-247-895-00	CARBON	470K 5% 1/4W				
R2331	1-247-895-00	CARBON	470K 5% 1/4W				
R2332	1-247-895-00	CARBON	470K 5% 1/4W				
R2333	1-247-895-00	CARBON	470K 5% 1/4W				
R2334	1-247-895-00	CARBON	470K 5% 1/4W				
R2335	1-247-895-00	CARBON	470K 5% 1/4W				
R2336	1-247-895-00	CARBON	470K 5% 1/4W				
R2337	1-247-895-00	CARBON	470K 5% 1/4W				
R2338	1-249-421-11	CARBON	2.2K 5% 1/4W				
R2339	1-247-804-11	CARBON	75 5% 1/4W				
R2340	1-247-804-11	CARBON	75 5% 1/4W				
R2341	1-249-425-11	CARBON	4.7K 5% 1/4W				
R2342	1-249-425-11	CARBON	4.7K 5% 1/4W				
R2343	1-249-425-11	CARBON	4.7K 5% 1/4W				
R2344	1-249-425-11	CARBON	4.7K 5% 1/4W				
R2345	1-249-425-11	CARBON	4.7K 5% 1/4W				
R2346	1-249-425-11	CARBON	4.7K 5% 1/4W				
R2347	1-249-421-11	CARBON	2.2K 5% 1/4W				
R2348	1-249-417-11	CARBON	1K 5% 1/4W				
R2349	1-249-417-11	CARBON	1K 5% 1/4W				
R2350	1-249-417-11	CARBON	1K 5% 1/4W				
R2351	1-249-417-11	CARBON	1K 5% 1/4W				
*****							
*A-1390-304-A S BOARD, COMPLETE							
*****							
<CAPACITOR>							
C3201	1-124-910-11	ELECT	47MF 20% 50V				
C3205	1-124-907-11	ELECT	10MF 20% 50V				
C3217	1-124-907-11	ELECT	10MF 20% 50V				
C3218	1-126-103-11	ELECT	470MF 20% 16V				
C3219	1-124-477-11	ELECT	47MF 20% 25V				
C3221	1-124-907-11	ELECT	10MF 20% 50V				
C3222	1-124-907-11	ELECT	10MF 20% 50V				
C3223	1-130-479-00	MYLAR	0.0047MF 5% 50V				
C3224	1-130-479-00	MYLAR	0.0047MF 5% 50V				
C3225	1-136-177-00	FILM	1MF 5% 50V				
C3226	1-136-177-00	FILM	1MF 5% 50V				
C3227	1-124-907-11	ELECT	10MF 20% 50V				
C3228	1-124-903-11	ELECT	1MF 20% 50V				
C3229	1-124-907-11	ELECT	10MF 20% 50V				
C3230	1-124-907-11	ELECT	10MF 20% 50V				
C3231	1-124-903-11	ELECT	1MF 20% 50V				
C3232	1-124-903-11	ELECT	1MF 20% 50V				
C3233	1-163-157-00	FILM	0.022MF 5% 50V				
C3234	1-124-907-11	ELECT	10MF 20% 50V				
C3235	1-124-903-11	ELECT	1MF 20% 50V				
C3236	1-136-496-81	FILM	0.082MF 5% 50V				
C3237	1-163-157-00	FILM	0.022MF 5% 50V				
C3238	1-124-907-11	ELECT	10MF 20% 50V				
C3239	1-130-491-00	MYLAR	0.047MF 5% 50V				
C3240	1-130-475-00	MYLAR	0.0022MF 5% 50V				
<CONNECTOR>							
CN3201*1-691-632-11 CONNECTOR, BOARD TO BOARD 15P							
<DIODE>							
D3201	8-719-981-50	DIODE RB-100A					
D3202	8-719-109-97	DIODE RD6.8ES-B2					
<IC>							
IC3202	8-752-057-18	IC CXA1315P					
IC3203	8-759-153-08	IC UPC1891ACY					
IC3204	8-759-245-75	IC TA8184P					
<RESISTOR>							
JR3206	1-216-295-00	METAL GLAZE	0 5% 1/10W				
JR3207	1-216-295-00	METAL GLAZE	0 5% 1/10W				
JR3208	1-216-295-00	METAL GLAZE	0 5% 1/10W				
JR3209	1-216-295-00	METAL GLAZE	0 5% 1/10W				
JR3210	1-216-295-00	METAL GLAZE	0 5% 1/10W				
JR3211	1-216-295-00	METAL GLAZE	0 5% 1/10W				
JR3213	1-216-295-00	METAL GLAZE	0 5% 1/10W				
JR3214	1-216-295-00	METAL GLAZE	0 5% 1/10W				
JR3217	1-216-295-00	METAL GLAZE	0 5% 1/10W				
JR3201	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W				
R3202	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W				
R3210	1-216-073-00	METAL GLAZE	10K 5% 1/10W				
R3212	1-216-073-00	METAL GLAZE	10K 5% 1/10W				
R3213	1-216-073-00	METAL GLAZE	10K 5% 1/10W				
R3215	1-216-033-00	METAL GLAZE	220 5% 1/10W				
R3218	1-216-033-00	METAL GLAZE	220 5% 1/10W				
R3220	1-216-073-00	METAL GLAZE	10K 5% 1/10W				
R3223	1-216-295-00	METAL GLAZE	0 5% 1/10W				
R3228	1-216-089-00	METAL GLAZE	47K 5% 1/10W				
R3229	1-216-085-00	METAL GLAZE	33K 5% 1/10W				
R3230	1-216-089-00	METAL GLAZE	47K 5% 1/10W				
R3231	1-216-085-00	METAL GLAZE	33K 5% 1/10W				
R3232	1-216-089-00	METAL GLAZE	47K 5% 1/10W				
R3233	1-216-085-00	METAL GLAZE	33K 5% 1/10W				
R3234	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W				
R3235	1-216-063-00	METAL GLAZE	3.9K 5% 1/10W				
R3238	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W				
R3239	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W				
R3240	1-216-085-00	METAL GLAZE	33K 5% 1/10W				
R3241	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W				
R3242	1-216-081-00	METAL GLAZE	22K 5% 1/10W				
R3243	1-216-085-00	METAL GLAZE	33K 5% 1/10W				
R3244	1-216-049-00	METAL GLAZE	1K 5% 1/10W				
R3245	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W				
R3246	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W				
R3247	1-216-119-00	METAL GLAZE	820K 5% 1/10W				
R3248	1-216-063-00	METAL GLAZE	3.9K 5% 1/10W				
R3249	1-216-089-00	METAL GLAZE	47K 5% 1/10W				

D1

<CONNECTOR>

D1

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
Q904	8-729-119-76	TRANSISTOR 2SA1175-HFE		R909	1-249-433-11	CARBON 22K 5% 1/4W	
Q905	8-729-119-76	TRANSISTOR 2SA1175-HFE		R910	1-249-431-11	CARBON 15K 5% 1/4W	
Q906	8-729-119-80	TRANSISTOR 2SC2688-LK		R911	1-247-895-00	CARBON 470K 5% 1/4W	
Q907	8-729-119-80	TRANSISTOR 2SC2688-LK		R912	1-249-429-11	CARBON 10K 5% 1/4W	
Q908	8-729-300-80	TRANSISTOR 2SB860		R913	1-249-425-11	CARBON 4.7K 5% 1/4W	
Q909	8-729-140-96	TRANSISTOR 2SD774-34		R914	1-249-401-11	CARBON 47 5% 1/4W	
Q910	8-729-119-78	TRANSISTOR 2SC2785-HFE		R915	1-249-425-11	CARBON 4.7K 5% 1/4W	
Q911	8-729-119-78	TRANSISTOR 2SC2785-HFE		R916	1-249-421-11	CARBON 2.2K 5% 1/4W	
Q912	8-729-119-76	TRANSISTOR 2SA1175-HFE		R917	1-249-439-11	CARBON 68K 5% 1/4W	
Q913	8-729-011-02	TRANSISTOR 2SK1917		R918	1-249-413-11	CARBON 470 5% 1/4W	
Q914	8-729-119-76	TRANSISTOR 2SA1175-HFE		R919	1-249-437-11	CARBON 47K 5% 1/4W	
<RESISTOR>				R920	1-249-418-11	CARBON 1.2K 5% 1/4W	F
R801	1-249-409-11	CARBON 220 5% 1/4W	F	R921	1-215-876-00	METAL OXIDE 15K 5% 1W	F
R802	1-249-409-11	CARBON 220 5% 1/4W		R922	1-215-870-11	METAL OXIDE 1.5K 5% 1W	F
R804	1-247-891-00	CARBON 330K 5% 1/4W		R923	1-249-429-11	CARBON 10K 5% 1/4W	
R806	1-247-885-00	CARBON 180K 5% 1/4W		R924	1-249-423-11	CARBON 3.3K 5% 1/4W	
R807	1-247-891-00	CARBON 330K 5% 1/4W		R925	1-249-415-11	CARBON 680 5% 1/4W	
R808	1-215-461-00	METAL 47K 1% 1/4W		R926	1-249-409-11	CARBON 220 5% 1/4W	
R809	1-249-423-11	CARBON 3.3K 5% 1/4W		R927	1-249-429-11	CARBON 10K 5% 1/4W	
R810	1-249-413-11	CARBON 470 5% 1/4W		R928	1-249-421-11	CARBON 2.2K 5% 1/4W	
R811	1-249-434-11	CARBON 27K 5% 1/4W		R929	1-249-429-11	CARBON 10K 5% 1/4W	
R812	1-249-438-11	CARBON 56K 5% 1/4W		R930	1-249-434-11	CARBON 27K 5% 1/4W	
R813	1-249-417-11	CARBON 1K 5% 1/4W		R931	1-249-421-11	CARBON 2.2K 5% 1/4W	
R815	1-249-427-11	CARBON 6.8K 5% 1/4W		R933	1-249-421-11	CARBON 2.2K 5% 1/4W	
R816	1-249-425-11	CARBON 4.7K 5% 1/4W		R934	1-249-439-11	CARBON 68K 5% 1/4W	
R817	1-249-422-11	CARBON 2.7K 5% 1/4W		R935	1-249-429-11	CARBON 10K 5% 1/4W	
R818	1-249-417-11	CARBON 1K 5% 1/4W		R936	1-249-429-11	CARBON 10K 5% 1/4W	
R819	1-249-432-11	CARBON 18K 5% 1/4W		R937	1-249-421-11	CARBON 2.2K 5% 1/4W	
R820	1-249-417-11	CARBON 1K 5% 1/4W		R938	1-249-405-11	CARBON 100 5% 1/4W	
R821	1-216-379-11	METAL OXIDE 6.8 5% 2W	F	R939	1-249-405-11	CARBON 100 5% 1/4W	F
R822	1-249-423-11	CARBON 3.3K 5% 1/4W		R940	1-249-405-11	CARBON 100 5% 1/4W	F
R824	1-247-713-11	CARBON 1K 5% 1/4W	F	R941	1-249-405-11	CARBON 100 5% 1/4W	
R825	1-215-857-11	METAL OXIDE 10 5% 1W	F	R944	1-249-432-11	CARBON 18K 5% 1/4W	
R826	1-249-404-00	CARBON 82 5% 1/4W		R945	1-247-895-00	CARBON 470K 5% 1/4W	
R827	1-215-875-11	METAL OXIDE 10K 5% 1W	F	R946	1-249-425-11	CARBON 4.7K 5% 1/4W	
R828	1-249-441-11	CARBON 100K 5% 1/4W		R947	1-249-419-11	CARBON 1.5K 5% 1/4W	F
R829	1-249-414-11	CARBON 560 5% 1/4W		R948	1-249-435-11	CARBON 33K 5% 1/4W	
R830	1-249-411-11	CARBON 330 5% 1/4W		R950	1-249-425-11	CARBON 4.7K 5% 1/4W	
R831	1-249-426-11	CARBON 5.6K 5% 1/4W		R951	1-249-433-11	CARBON 22K 5% 1/4W	
R832	1-215-864-00	METAL OXIDE 150 5% 1W	F	R952	1-249-405-11	CARBON 100 5% 1/4W	
R833	1-249-421-11	CARBON 2.2K 5% 1/4W		R953	1-247-889-00	CARBON 270K 5% 1/4W	
R834	1-249-438-11	CARBON 56K 5% 1/4W		R954	1-247-889-00	CARBON 270K 5% 1/4W	
R835	1-249-393-11	CARBON 10 5% 1/4W		*****			
R836	1-249-435-11	CARBON 33K 5% 1/4W		*A-1373-334-A D1 BOARD, COMPLETE			
R837	1-249-435-11	CARBON 33K 5% 1/4W		*****			
R838	1-216-359-00	METAL OXIDE 6.8 5% 1W	F	(KV-S34JN1, S34MN1, S34SN1)			
R839	1-249-410-11	CARBON 270 5% 1/4W		*4-341-751-01 EYELET (EY801-EY804, EY901-EY904)			
R840	1-249-429-11	CARBON 10K 5% 1/4W		*4-341-752-01 EYELET (EY811, EY812, EY911, EY912)			
R841	1-249-437-11	CARBON 47K 5% 1/4W		4-382-854-11 SCREW (M3X10), P. SW (+)			
R842	1-249-429-11	CARBON 10K 5% 1/4W		<CAPACITOR>			
R843	1-249-421-11	CARBON 2.2K 5% 1/4W		C801	1-124-589-11	ELECT 47MF 20% 16V	
R845	1-249-431-11	CARBON 15K 5% 1/4W		C802	1-124-589-11	ELECT 47MF 20% 16V	
R846	1-249-423-11	CARBON 3.3K 5% 1/4W		C804	1-130-483-00	MYLAR 0.01MF 5% 50V	
R847	1-249-405-11	CARBON 100 5% 1/4W		C805	1-136-165-00	FILM 0.1MF 5% 50V	
R901	1-249-425-11	CARBON 4.7K 5% 1/4W		C806	1-136-165-00	FILM 0.1MF 5% 50V	
R902	1-249-438-11	CARBON 56K 5% 1/4W		C807	1-124-360-00	ELECT 1000MF 20% 16V	
R903	1-249-429-11	CARBON 10K 5% 1/4W		C809	1-136-104-00	FILM 0.16MF 5% 200V	
R904	1-249-429-11	CARBON 10K 5% 1/4W		C810	1-136-177-00	FILM 1MF 5% 50V	
R905	1-249-429-11	CARBON 10K 5% 1/4W		C811	1-162-318-11	CERAMIC 0.001MF 10% 500V	
R906	1-249-425-11	CARBON 4.7K 5% 1/4W		C812	1-126-163-11	ELECT 4.7MF 20% 50V	
R907	1-249-429-11	CARBON 10K 5% 1/4W					
R908	1-249-437-11	CARBON 47K 5% 1/4W					

REF.NO.	PART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
C813	1-130-491-00	MYLAR	0.047MF	5%	50V	D907	8-719-911-19	DIODE ISS119			
C814	1-124-261-00	ELECT	10MF	20%	50V	D908	8-719-981-01	DIODE ERA81-004			
C815	1-124-261-00	ELECT	10MF	20%	50V	D911	8-719-911-19	DIODE ISS119			
C816	1-124-234-00	ELECT	22MF	20%	16V						
C817	1-126-163-11	ELECT	4.7MF	20%	50V			<IC>			
C818	1-124-589-11	ELECT	47MF	20%	16V	IC801	8-749-920-58	IC SI-3090CA			
C819	1-136-165-00	FILM	0.1MF	5%	50V	IC802	8-752-052-88	IC CXA1526P			
C820	1-126-103-11	ELECT	470MF	20%	16V	IC803	8-759-135-80	IC UPC358C			
C901	1-136-173-00	FILM	0.47MF	5%	50V	IC901	8-759-135-80	IC UPC358C			
C902	1-124-907-11	ELECT	10MF	20%	50V	IC903	8-759-987-16	IC LM393P			
C903	1-163-157-00	FILM	0.022MF	5%	50V			<COIL>			
C904	1-130-471-00	MYLAR	0.001MF	5%	50V	L801	1-459-592-41	COIL (WITH CORE) (PMC)			
C905	1-124-261-00	ELECT	10MF	20%	50V	L802	1-459-941-12	COIL, CHOKE 3.4MMH			
C906	1-124-046-00	ELECT	10MF	20%	160V	L901	1-410-093-11	INDUCTOR 33MMH			
C907	1-124-465-00	ELECT	0.47MF	20%	50V	L902	1-459-148-00	COIL			
C908	1-102-112-00	CERAMIC	330PF	10%	50V	L903	1-459-941-12	COIL, CHOKE 3.4MMH			
C910	1-136-756-11	FILM	0.24MF	5%	200V			<TRANSISTOR>			
C911	1-137-198-81	FILM	1MF	5%	50V	Q802	8-729-119-76	TRANSISTOR 2SA1175-HFE			
C913	1-124-589-11	ELECT	47MF	20%	16V	Q803	8-729-119-78	TRANSISTOR 2SC2785-HFE			
C914	1-106-379-12	MYLAR	0.033MF	10%	100V	Q804	8-729-119-78	TRANSISTOR 2SC2785-HFE			
C915	1-126-301-11	ELECT	1MF	20%	50V	Q805	8-729-140-97	TRANSISTOR 2SB734-34			
C916	1-130-479-00	MYLAR	0.0047MF	5%	50V	Q806	8-729-119-78	TRANSISTOR 2SC2785-HFE			
C917	1-130-479-00	MYLAR	0.0047MF	5%	50V	Q807	8-729-140-97	TRANSISTOR 2SB734-34			
C918	1-102-074-00	CERAMIC	0.001MF	10%	50V	Q808	8-729-119-76	TRANSISTOR 2SA1175-HFE			
C920	1-130-202-00	FILM	0.022MF	5%	400V	Q809	8-729-209-15	TRANSISTOR 2SD2012			
C921	1-137-198-81	FILM	1MF	5%	50V	Q810	8-729-140-96	TRANSISTOR 2SD774-34			
C922	1-124-557-11	ELECT	1000MF	20%	25V	Q811	8-729-119-78	TRANSISTOR 2SC2785-HFE			
C923	1-137-364-91	FILM	0.001MF	5%	50V	Q812	8-729-900-36	TRANSISTOR DTC124ES			
C925	1-124-907-11	ELECT	10MF	20%	50V	Q813	8-729-119-78	TRANSISTOR 2SC2785-HFE			
C926	1-136-175-00	FILM	0.068MF	5%	50V	Q901	8-729-119-76	TRANSISTOR 2SA1175-HFE			
C928	1-124-261-00	ELECT	10MF	20%	50V	Q902	8-729-119-78	TRANSISTOR 2SC2785-HFE			
C929	8-719-110-22	DIODE RD11ES-B2				Q903	8-729-119-78	TRANSISTOR 2SC2785-HFE			
C930	1-130-483-00	MYLAR	0.01MF	5%	50V	Q904	8-729-119-76	TRANSISTOR 2SA1175-HFE			
		<CONNECTOR>				Q905	8-729-119-76	TRANSISTOR 2SA1175-HFE			
CN801	*1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P				Q906	8-729-119-80	TRANSISTOR 2SC2688-LK			
CN802	*1-564-524-11	PLUG, CONNECTOR 9P				Q907	8-729-119-80	TRANSISTOR 2SC2688-LK			
CN803	*1-573-299-11	CONNECTOR, BOARD TO BOARD 10P				Q908	8-729-300-80	TRANSISTOR 2SB860			
CN804	*1-573-299-11	CONNECTOR, BOARD TO BOARD 10P				Q909	8-729-140-96	TRANSISTOR 2SD774-34			
		<DIODE>				Q910	8-729-119-78	TRANSISTOR 2SC2785-HFE			
D801	8-719-913-44	DIODE ERA82-004				Q911	8-729-119-78	TRANSISTOR 2SC2785-HFE			
D802	8-719-911-19	DIODE ISS119				Q912	8-729-119-76	TRANSISTOR 2SA1175-HFE			
D803	8-719-911-19	DIODE ISS119				Q913	8-729-011-02	TRANSISTOR 2SK1917			
D804	8-719-911-19	DIODE ISS119				Q914	8-729-119-76	TRANSISTOR 2SA1175-HFE			
D805	8-719-801-35	THYRISTOR SHOR3D42						<RESISTOR>			
D806	8-719-981-01	DIODE ERA81-004				R801	1-249-409-11	CARBON 220 5%	1/4W	F	
D807	8-719-981-01	DIODE ERA81-004				R802	1-249-409-11	CARBON 220 5%	1/4W		
D808	8-719-911-19	DIODE ISS119				R804	1-247-891-00	CARBON 330K 5%	1/4W		
D809	8-719-911-19	DIODE ISS119				R805	1-249-411-11	CARBON 330 5%	1/4W		
D810	8-719-911-19	DIODE ISS119				R806	1-247-885-00	CARBON 180K 5%	1/4W		
D811	8-719-300-33	DIODE RU-3AM				R807	1-247-891-00	CARBON 330K 5%	1/4W		
D812	8-719-911-19	DIODE ISS119				R808	1-215-461-00	METAL 47K 1%	1/4W		
D813	8-719-109-88	DIODE RD5.6ES-B1				R809	1-249-423-11	CARBON 3.3K 5%	1/4W		
D814	8-719-110-13	DIODE RD9.1ES-B2				R810	1-249-413-11	CARBON 470 5%	1/4W		
D815	8-719-911-19	DIODE ISS119				R811	1-249-434-11	CARBON 27K 5%	1/4W		
D816	8-719-911-19	DIODE ISS119				R812	1-249-438-11	CARBON 56K 5%	1/4W		
D817	8-719-911-19	DIODE ISS119				R813	1-249-417-11	CARBON 1K 5%	1/4W		
D901	8-719-911-19	DIODE ISS119				R815	1-249-427-11	CARBON 6.8K 5%	1/4W		
D902	8-719-109-96	DIODE RD6.8ES-B1				R816	1-249-425-11	CARBON 4.7K 5%	1/4W		
D903	8-719-979-85	DIODE EGP20G									
D906	8-719-981-01	DIODE ERA81-004									

# SWITCH BLOCK

-150-

The components identified by shading and mark  $\Delta$  are critical for safety.  
Replace only with part number specified.

KV-S29JN1/S29MN1/S29SN1/S34JN1/S34MN1/S34SN1  
RM-821

REF. NO.	PART NO.	DESCRIPTION	REMARK
	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM $\phi$	
	$\Delta$ 1-452-616-12	NECK ASSY, PICTURE TUBE (NA323)	
	1-504-121-41	SPEAKER (SQUAWKER) (5CM)	
	1-544-557-11	SPEAKER (12CM)	
	*1-555-110-00	CABLE, PIN	
	$\Delta$ 1-696-401-11	CORD, POWER (WITH CONNECTOR) (KV-S34JN1)	
	$\Delta$ 1-574-062-12	CORD, POWER (WITH CONNECTOR) (KV-S34MN1)	
	$\Delta$ 1-574-358-11	CORD, POWER (WITH CONNECTOR) (KV-S34SN1)	
V901	$\Delta$ 8-733-731-05	PICTURE TUBE (M81KVA10X) (KV-S34JN1)	
	$\Delta$ 8-733-733-05	PICTURE TUBE (M81KVA10X) (KV-S34MN1)	
	$\Delta$ 8-733-732-05	PICTURE TUBE (M81KVA10X) (KV-S34SN1)	

\*\*\*\*\*  
ACCESSORIES AND PACKING MATERIALS  
\*\*\*\*\*

<KV-S29JN1,S29MN1,S29SN1>

X-4030-173-1 BUCKLE ASSY (B), B  
1-466-779-11 ADAPTOR, CHANGE (KV-S29JN1)  
1-466-780-11 ADAPTOR, CHANGE (KV-S29JN1)  
3-701-910-00 SCREW, SPECIAL (DIA. 3.8X20)  
3-755-606-12 MANUAL, INSTRUCTION  
3-755-606-42 MANUAL, INSTRUCTION (KV-S29JN1,S29MN1)  
\*4-038-176-01 CUSHION (UPPER) (ASSY)  
\*4-038-177-01 CUSHION (LOWER) (ASSY)  
\*4-038-174-01 INDIVIDUAL CARTON  
\*4-038-175-01 TRAY  
\*4-030-594-01 BAG, PROTECTION  
4-392-004-01 CLIP  
\*4-396-077-01 JOINT

<KV-S34JN1,S34MN1,S34SN1>

X-4030-173-1 BUCKLE ASSY (B), B  
1-466-779-11 ADAPTOR, CHANGE (KV-S34JN1)  
1-466-780-11 ADAPTOR, CHANGE (KV-S34JN1)  
3-701-910-00 SCREW, SPECIAL (DIA. 3.8X20)  
3-755-606-12 MANUAL, INSTRUCTION  
3-755-606-42 MANUAL, INSTRUCTION (KV-S34JN1,S34MN1)  
\*4-034-198-01 CUSHION (UPPER) (ASSY)  
\*4-034-199-01 CUSHION (LOWER) (ASSY)  
\*4-036-554-01 INDIVIDUAL CARTON  
\*4-037-068-01 TRAY  
\*4-388-954-01 BAG, PROTECTION  
4-392-004-01 CLIP  
\*4-396-077-01 JOINT

REMOTE COMMANDER

1-693-173-11 REMOTE COMMANDER (RM-821)  
9-998-214-11 COVER, BATTERY (FOR RM-821)  
9-998-277-21 COVER (FOR RM-821)